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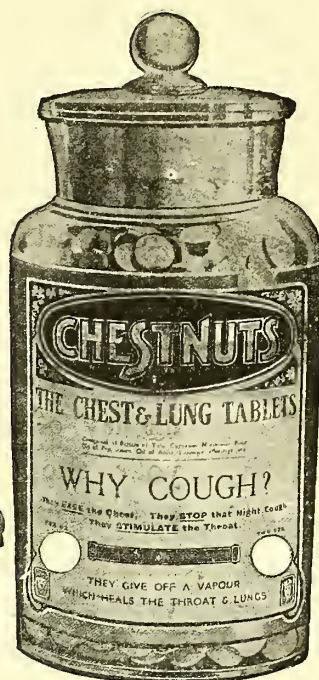
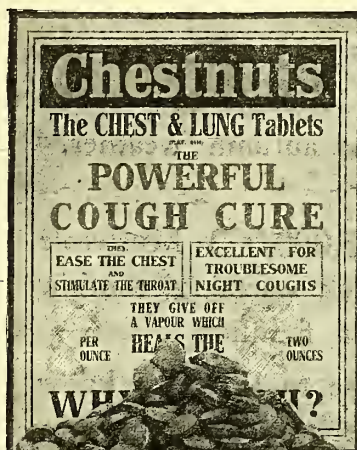
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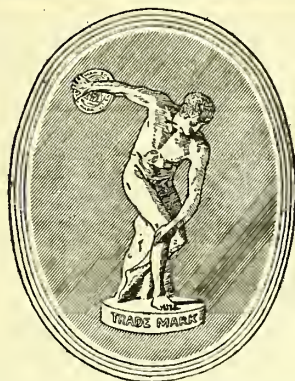
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Maw's



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MAY WE SEND YOU A SAMPLE?

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PRESS THE FOLLOWING ADVERTISEMENT*

"PELDO" YOUR HANDS FIRST

Perhaps some of your customers have enquired from you about it?

If you do not already know "Peldo" we shall be pleased to send you a Trial Tube post free, so that you may learn all about it; you will then have a very interesting subject to talk about to your customers.

RETAIL PRICE

**1/6 EACH
NET**

(P.A.T.A.)

Attractive Window Display material and Showcards supplied. Sample Tubes supplied gratis in proportion to quantity ordered.

WHOLESALE PRICE

**13/6 PER
DOZ.**

In order to introduce "Peldo" we are offering a special bonus for a guaranteed window display of not less than 14 days as follows:

On orders of 1 gross a bonus of 18 full-size tubes.
On orders of 6 dozen a bonus of 8 full-size tubes.
On orders of 3 dozen a bonus of 3 full-size tubes.

Further particulars on application to

C. R. HARKER, STAGG & MORGAN, LTD.

Devon Wharf and Bell Wharf, Emmott Street, MILE END, E.1.

"Curing
the
Croak."



This showcard forms part of the window display which is making the public stop, stare, and step in, and which we supply with bonus term orders for 12 doz. and 6 doz. tins.

SPECIMEN 12 DOZEN ORDER.

<i>Wholesale.</i>	<i>Retail.</i>
12 doz. at 11/3 doz. - £6 15 0	12 doz. tins at 1/3 ea. £9 0 0
In 1 or 2 deliveries	1 doz. Bonus at 1/3 ea. 0 15 0
5% discount 0 6 9	
Total Outlay - £6 8 3	Receipts - £9 15 0
	Profit - £3 6 9

OR 52% ON OUTLAY,

SPECIMEN 6 DOZEN ORDER.

<i>Wholesale.</i>	<i>Retail.</i>
6 doz. at 11/3 doz. - £3 7 6	6 doz. tins at 1/3 ea. - £4 10 0
	½ doz. Bonus at 1/3 ea. 0 7 6
Outlay - £3 7 6	Receipts - £4 17 6
	Profit - £1 10 0

OR 44% ON OUTLAY.

EVANS

EVANS SONS LESCHER & WEBB, LTD.
LIVERPOOL New York LONDON

LIQUID PARAFFIN B.P. 1914

EXCLUSIVELY REFINED FROM

RUSSIAN CRUDES.

ALL GRAVITIES.

HIGHEST VISCOSITIES.

"JASMINE BRAND" PETROLEUM JELLIES B.P.

White and Yellow Tasteless and Odourless.
Natural Filtered and Opaque.

"JASMINE BRAND" WHITE OILS Chem. Pure, Water-White, Tasteless, Odourless.

FOR MANUFACTURING PURPOSES.

LUBRICATING OILS

FOR ALL PURPOSES.

*All Our Products are Guaranteed of Finest
Qualities and Our Prices are Competitive.*

THE PURE RUSSIAN LIQUID PARAFFIN CO., LIMITED

3 ST. HELEN'S PLACE, LONDON, E.C.3.

Actual Refiners and Manufacturers at their Works near London.

Ayrton's

Cumulative Effect

Each week we direct notice on this page to money-making propositions for the Chemist, and it is a matter of inspiration to us to know that so many professional friends benefit thereby, as is evidenced by orders received.

Our recent announcements have embraced Cream Emulsion of Cod Liver Oil, both packed and in bulk; Pinettes, the wonderful winter lozenge; Hot sellers, such as Thermal Wool and Ginger Wine Essence, and announcements of our service in Pharmaceutical Drugs, Galenicals, etc.

Every issue of "The Chemist and Druggist" has added new accounts to our Clientele. Last week's new accounts in respect of Ayrton's Ovals are indeed gratifying. This strong body of satisfied opinion in the Pharmaceutical profession is something of which we are proud, and we may be depended upon to continue our strivings to give the Pharmacist service unequalled in the trade. Thanks are not over-emphasised in business circles these days, but we are prompted to devote our space this week to an appreciation which is due to our professional friends.

AYRTON, SAUNDERS & Co., Ltd.

Manufacturing Chemists,

HANOVER STREET, LIVERPOOL.

Telegrams: "SUNDRIES, LIVERPOOL." Telephone: ROYAL 4861.

PURE ORANGE WINE

A. MILLAR & CO., LTD., DUBLIN

(VINUM AURANTII B.P.) Prepared in strict accordance with the Formula of the British Pharmacopœia. (Wholesale only.)
Samples from Head Office, Thomas Street, DUBLIN, or London Office, 43 Great Tower Street, LONDON, E.C. 3.

FRED^K. FINK & CO.,

10 & 11 MINCING LANE, LONDON, E.C.3.

SPECIALITIES.—Gums Arabic and Tragacanth as Imported or finely powdered.

PRECIPITATED CHALK

Lightest and Whitest, also Purest Dense

Apply to
Aug. Levermore & Co., Ltd. 8-10 Gt. S. Helens
LONDON, E.C.3.
Telegrams: 'Levermore London.' Telephone: Central 4613.

"UNIT"

(Regd.)

"LIQUID KID"

BOTTLE CAPPING SOLUTION

Dries a tough matt white, being a very close imitation of, and replacing in use, white kid and other "tie-down" materials. It "drapes" the cork and bottle neck. Quality always consistent. Trial Tin, 2s. post free.

THE UNIT MANUFACTURING CO.,
171a LANDELLS ROAD, EAST DULWICH, SURREY.

TINKER'S DOG MEDICINES

are in great demand both at home and abroad. Mail order customers ask for address of nearest agent. Send me a p.c. I can send you customers. "T.D.M." gives satisfaction with credit to you.

HENRY TINKER, The Heights, MANCHESTER.

TINS BOXES & CANISTERS

(made in our own works)
at keenly competitive prices.

Let us quote for any kind or size you need. Or ask for list of STOCK TINS

GOODALL, BACKHOUSE & CO., Leeds.

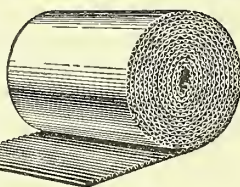
B O X E S	BRITISH MADE, ROUND AND SQUARE	B O X E S
	CARDBOARD BOXES	
	for	
	PILLS, POWDERS, SOAP, OINTMENT, BOTTLES & CHEMISTS' ADJUNCTS.	
	Estd. 1850. Wholesale & Export only. Phone: 2505 Royal.	
	JAMES AUSTIN Ltd. 32 GREAT GEORGE SQUARE, LIVERPOOL.	

Corrugated Rolls. Collapsible
Boxes. Cartons. Greaseproof
Corrugated. Tinted Corrugated.

Keenest Prices. Quick Delivery.
Kindly ask us to quote.

The Guildhall Corrugated Paper Co.

Dept. CH. GUILDHALL BUILDINGS,
NAVIGATION ST., BIRMINGHAM.



BOOKS FOR PHARMACISTS.

Send us a postal card and we will send you a 32 page catalogue of professional and business books for pharmacists, and a copy of

"THE SPATULA"

an illustrated monthly magazine for druggists, full of American snap and enterprise.

THE SPATULA, BOSTON 14, MASS., U.S.A.



BUY DIRECT

ELARCO RUBBER GOODS

The LONDON RUBBER CO. 183 Aldersgate Street
LONDON, E.C.1.

GILLETTE BLADES GENUINE U.S.A. MAKE

At 30/9 per box of ten doz., post free.
Cash with order. Enquire for Bargain List.

L. FRANKENBERG,
15 Stoney Lane, Houndsditch, E.1. Phone: Bank 448.

PERFUMERY, TOILET ARTICLES, and SUNDRIES

by leading British, American and Continental
Manufacturers can be supplied in wholesale
quantities. Price list on application to

A. B. MEIKLE, Red Lion House, Red Lion Ct., London, E.C.4.

J. W. PINDAR & CO. Druggists' Engineers

PILL MACHINERY (Hand and Power),

Hand Pill Machines (for Chemists), Tablet Sugar Coaters (with Hot-Air Blowers), Pill Coaters, Counters with Shoot, Tincture Presses, Emulsifying and Mixing Machines, Percolators, Ointment Mills, Drug Mills, "Eternite" Ovens, Tablet Compressing Machines, &c.

Other Machinery for Manufacturing Druggists and Chemists.
Cachet Filling Apparatus for French and Moorstadt Series.
Suppository and Pessary Moulds, &c.

BROCKLEY, LONDON, S.E.4. Telephone: New Cross 1065.

CACHETS

Chemists who pride themselves on the elegant way they put out their pharmaceuticals in Cachet form should write for samples, price, and full particulars to—
THOS. CHRISTY & CO.,
4/12 Old Swan Lane, E.C.4.
Our Speciality for many years. No finer quality obtainable anywhere. Write to-day.



A Display Package of Unusual Dignity

THIS exclusive design (supplied to Chemists and Druggists only), consists of tins decorated in close imitation of green marble, in a black outer relieved with gold and white.

The ensemble has an air of distinction which makes it a welcome detail of window decoration in the most exclusive pharmacies.

RETAIL PRICE, 9d. per tin (P.A.T.A.). TRADE, 5/6 per doz.

Most of our popular pastilles are supplied in this display package, and there is also a larger size of "marble" tin, price 11/- per dozen (retail 5/4), but this is not at present sent out in display outers.

THOMAS KERFOOT & CO LTD
BARDSLEY VALE, LANCASHIRE,
& Bardsley House, London, N.1
 ESTABLISHED 1797.

COPYRIGHT

Building Sales for You

ADVERTISEMENTS like the one shown on this page are being read by women everywhere in Great Britain. They are appearing regularly in "The Daily Mail," "The Daily Mirror," and in women's periodicals like "Vogue," "Eve," "The Ladies' Field," "Tatler," "Sketch" and "Queen."

These are the sales-builders that are working for you to bring women to your counter to ask for Ingram's Milkweed Cream.

Ingram's Milkweed Cream is world-famous. It has a larger sale than any similar preparation in the world. Its tonic quality makes it unique, for it actually "tones up"—revitalizes—the complexion as well as protects the skin.




A Rose-petal skin

Constance Talmadge is one of the many stars of the stage and screen who use and endorse Ingram's Milkweed Cream. Read carefully the booklet "The Care of the Complexion" that is packed with every jar.

YOUR complexion is tired at night. All day long it has been exposed to the ravages of wind and weather, the dust of the streets and the heat of the sun. Apply a little Ingram's Milkweed Cream before going to bed. It will bring back that rose-petal softness and radiant clearness. The wonderful qualities of Milkweed Cream actually revitalize the skin tissues. You can get it at your chemist's. If you experience any difficulty in obtaining it write "Sangers," 253 Euston Road, N.W., Wholesale Distributors.

**Ingram's
Milkweed
Cream**



Ingram's Milkweed Cream is protected on the list of the P.A.T.A. at the following prices:
Minimum retail, 2/6 .. 22/6 per dozen.

The representatives for Great Britain are:
SANGERS, 253 Euston Road, N.W.1.

Ingram's Milkweed Cream

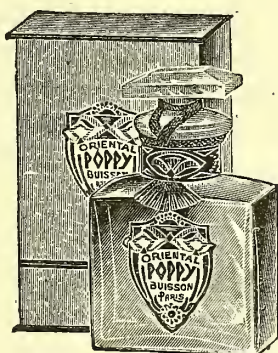
We take this opportunity of thanking our numerous friends for their help in making the Exhibition at Leeds such a wonderful success.

ORIENTAL POPPY BUISSON

An Eastern Perfume of wonderful fragrance and great lasting power, packed in dainty bottles and cartons.

Packed in three sizes
as illustration.

BATH SALTS
BRILLANTINE
PERFUMED CARDS
ABSOLUTE
PERFUME
HAIR FOOD



“Buisson” Perfumes
are *good* products;
write for a small test-
ing sample of Oriental
Poppy, and judge for
yourself.

Prices and Terms on application.

BUISSON FRÈRES - - - LONDON.

Sole Proprietors :

W. J. BUSH & CO., LTD.
ASH GROVE, HACKNEY, LONDON, E.8.

DEARBORN LTD

37 Gray's Inn Road,
LONDON, W.C.1.

Toilet Specialties.

	Price per doz. to Retailer	Selling Price P.A.T.A.
PILENTA SOAP ...	10/-	1/-
A complexion soap.		
PROLACTUM ...	10/-	1/-
For the lips.		
PARSIDIUM JELLY ...	10/-	1/-
For wrinkles.		
ALLACITE OF ORANGE		
BLOSSOM ...	22/6	2/6
A dressing cream.		
BORANIUM ...	22/6	2/6
A hair tonic.		
CLEMINITE ...	22/6	2/6
For a face lotion.		
COLLIANDUM ...	22/6	2/6
For a face tint.		
PERGOL ...	22/6	2/6
A deodorant.		
TEKKO PASTE ...	22/6	2/6
Camphor cream.		
STALLAX ...	22/6	2/6
For a shampoo.		
JETTALINE ...	31/6	3/6
For clearing the skin.		
PHEMINOL ...	36/-	4/-
A depilatory.		
MENNALINE ...	36/-	4/-
For the eyelashes.		
MERCOLIZED WAX ...	31/6	3/6
A face cream.		
STYMOL ...	36/-	4/-
For oily complexions and blackheads.		
SILMERINE ...	22/6	2/6
Hair-curling fluid.		
BARSYDE ...	22/6	2/6
Dandruff eradicator.		
TAMMALITE ...	22/6	2/6
For grey and faded hair.		
LIQUID PERGOL ...	31/6	3/6
To check excessive perspiration locally.		
BICROLIUM ...	22/6	2/6
For whitening the hands.		
HARAPOSA ...	22/6	2/6
Nut oil shampoo.		
COCONOIDS ...	31/6	3/6
For figure development.		

The Products of

Messrs. PARKER, BELMONT & CO.

CLYNOL BERRIES	36/-	4/-
For obesity.		
SOFT PALERIUM ...	45/-	5/-
For wrinkles.		
LIQUID NAIL POLISH ...	10/-	1/-
Brilliant and lasting.		

Stocked by ALL Wholesale Houses.

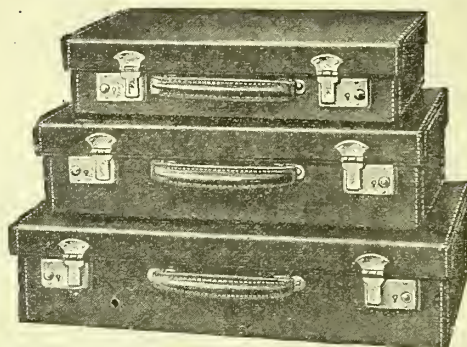
COLONIAL DEPOTS AND AGENCIES.

Australia: ALL WHOLESALE, & DEARBORN (Australia), Ltd., Grace House Clarence Street, Sydney.
South Africa: LENNON Ltd, Cape Town, etc.
SISS BROS. & KARNOVSKY, Johannesburg.
India: FRAMJEE & SON, Bombay
SMITH, STANISTREET & CO., Calcutta.
New Zealand: SHARLAND & CO., Auckland & Wellington.
South America: DEARBORN (South America), Ltd. Calla
 Salta 264, Buenos Aires
Straits Settlements & Federated Malay States: MEDICAL
 HALL, Ltd., Singapore.

SPECIAL OFFER TO CHEMISTS.

ATTACHÉ CASES

Direct from Manufacturer



REAL NUT-BROWN HIDE. LINED GREEN.
TWO SLIDING NOZZLE LOCKS.

14x9½x3½ 12/9, 16x10x4 14/6, 18x10½x4½ 16/- each
POST PAID.

Suit, Week-end, Ladies' Blouse Cases, etc., at
equally advantageous prices. Enquiries solicited.

Dept. C. D. The Leather Goods Mfg. Co.
41 Oldfield Road, Salford, MANCHESTER.

The Evan Williams

ALWAYS IN GREAT DEMAND.
PRICE LIST ON APPLICATION.

The EVAN-WILLIAMS Co., Ltd., 18 Ogle Street, W.1.

SHAMPOO.

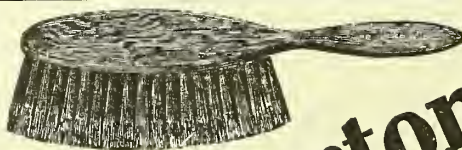


SHADEINE

FOR COLOURING GREY HAIR

This popular article is largely advertised
and stocked by all Wholesale Houses.
 Trial Size 6d., per post 11d. 1/4 size, per post
 1/8; 2/6 size, per post 2/11; 3/9 size, per post 4/6;
 6d size, 6/- doz.; 1/4 size 12/- doz.; 2/6 size,
 24/- doz.; 3/9 size, 36/- doz.

THE SHADEINE CO., 58 WESTBOURNE GROVE, LONDON, W.



Titterton's

Celebrated

HAIR BRUSHES

Tooth, Nail & Shaving Brushes

TITTERTON & HOWARD, Ltd., 8-10 Gt. Titchfield St., W.1.

Factory: Albion Works, Dalston Lane, E.8.

Original

Premises

The Unsurpassed

1798

Toilet Series.

Perivale Preparations

The quality of these preparations and style of packing reaches a height of perfection seldom obtained, resulting in quick sales and liberal profits to the Pharmacist.

A Bonus Parcel Shows over 80% Profit on Cost.

SPECIMEN £5 BONUS PARCEL.

"PERIVALE" PREPARATIONS.

MODEL ORDER.				Carriage Free.	
				Trade Price.	Retail Value.
1/6 doz.	Bath Dusting Powder	..	..	4/0	7/6
1/12	" Boxes Toilet Soap	..	..	2/0	3/0
1/12	" Bath Soap	..	..	3/10	5/9
1/12	" Creme aux Amandes	..	..	2/0	3/0
1/6	" Dental Cleanser	..	..	2/0	3/0
1/3	" Floral Bath Salts	..	..	12/0	18/0
1	" " Brilliantine, 2 ozs.	..	..	10/0	15/0
1/2	" " " 4 "	..	..	8/0	12/0
8/12	" Hair Cream	..	..	8/0	12/6
1/12	" Lait Complexion	..	..	2/4	3/6
1/12	" Lavender Water, 4 ozs.	..	..	5/0	7/6
1/12	" " " 8 "	..	..	9/8	14/6
1/3	" Liquid Shampoo	..	..	5/4	8/0
1/3	" Mouth Wash, 4 ozs.	..	..	5/4	8/0
1/4	" " " 8 "	..	..	6/0	9/0
1/6	" Shaving Cream	..	..	3/4	5/0
1/2	" Solid Brilliantine	..	..	5/0	7/6
1/2	" Spirit " 2 ozs.	..	..	5/0	9/0
1/3	" " " 4 "	..	..	6/8	10/0
1	" Tooth Paste	..	..	10/0	15/0
1/4	" Vanishing Cream	..	..	3/6	5/3

On any order to the money value of £5 for these preparations goods will be supplied to the value of £6 and sent carriage free.
On orders to the money value of £10 an extra 5% discount will be given.

£6 0 0 £9 1 6

Cost ..5 0 0

Profit £4 1 6

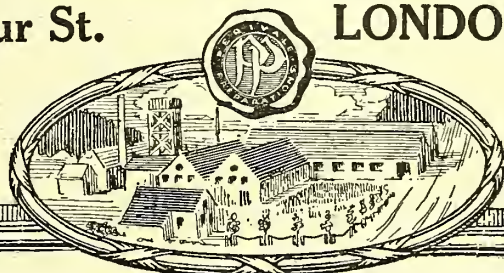
Manufactured Solely by

JOHN BELL & CROYDEN, Ltd.

Incorporating ARNOLD & SONS,

6, Giltspur St.

LONDON, E.C.1.



Price's Old English Lavender Squares

(BATH SIZE).

Now available
in BATH size
as illustrated.
(6 squares
in box.)



Retailing at
7s. 6d. doz.

Bath size Squares yield
an attractive profit

PRICE'S
BATTERSEA
S.W. 11



This Illustration shows the Patent Shock Absorber and the glass refill marked "Thermos."



No. J.22.

SPECIFICATION.

Brown Enamelled body with trademark name "Thermos" in silver; aluminium cup and shoulder, with detachable handle to cup; "Thermos" Shock Absorber and refill; superfine cork and parchment cover.

THERMOS

LTD.

Announce

A NEW FLASK and Prize Competition.

The J.22 is a new Flask retailing at 5/-. It has our standard refill and Patent Shock Absorber (see specification.) It is a great seller and should be stocked by all Dealers.

With the introduction of this Flask a

PRIZE COMPETITION

has been started.

PRIZES, £20, £10, £5, and 100 Flasks.

This very easy Competition is producing big business—every Dealer is interested.

FULL PARTICULARS FROM—

THERMOS LTD., 12-14 Denman St., Piccadilly Circus, London, W.1

The Grey Hair Problem

Solved by
A New
Discovery

Colour
Restored
Gradually
Permanently
Safely

Nuctone, the discovery of an eminent Hair Specialist, has completely solved the Grey Hair Problem.

Nuctone

acts on an entirely different principle from any other preparation by restoring to the cells of the hair those pigments which Nature has ceased to supply, the colour coming gradually, through the action of light and air.

Nuctone is guaranteed not to contain sulphur, lead or any other injurious ingredient.

Nuctone for dark shades, Nuctone Eclair for blonde and auburn shades.

Retail Price 6/6 per bottle

Manufactured by

Stewart, Goodall & Dunlop, Ltd., 4 Dering St., London, W.1.

Stocked by all the leading Wholesale Houses.

They all ask for

ANZORA

Stock it to-day and reap the reward of these most popular hair preparations. From all wholesalers.

Trade 12/- doz. Retail at 18/-
Terms: 20/- " " " 30/-

Write to-day for display showcards and cut-outs. Sent post free

IT MASTERS THE HAIR

Anzora Perfumery Co., Ltd., Willeiden Lane, London, N.W.6.

POWDER PUFFS

Our creations in this line are acknowledged to be UNIQUE, and wherever shown they appeal to the lady of refinement because of their ORIGINALITY of design.

Our Novelties are packed singly in round fancy boxes and bear our gold seal "ROSETTE" with device of basket of roses, which stands for Quality and High-class Workmanship. One dozen boxes are packed to the carton, which packing is most convenient for Shipping. Manufactured throughout by BRITISH LABOUR in our own workshops under ideal conditions, our Powder Puffs are demanded practically the WORLD OVER.

Markets still open include The EAST, The UNITED STATES OF AMERICA and SOUTH AMERICAN STATES. We kindly invite enquiries from Merchant Shippers catering for these countries confident that there need only be a few of our novelty puffs shown to create a large demand.

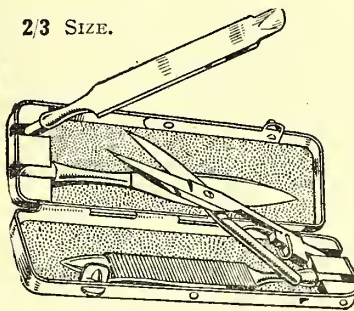
J. R. BOURLAT, GOES & CO.,

Manufacturing Specialists in Fancy Powder Puffs to the Wholesale and Shipping Trade ONLY.

22 Princes Road, Holland Park, LONDON, W.11.

Telephone Nos.: PARK 240 & 2592.

2/3 SIZE.



Complete
Manicure
Sets

In Nickel Case,
Velvet Lined,
containing four
Instruments.

20s. dozen

Post free.

Splendid
Sellers.

BEST FORGED STEEL SCISSORS.

Inch	Dozen	Inch	Dozen
3½ Bent Nail ...	8/6	6½ Cutting Out ...	11/-
3½ Straight Nail ...	7/6	7 " " ...	12/-
3½ Straight Cuticle ...	8/-	Surgical ...	12/-
3½ Bent Cuticle ...	7/6	Drapers' ...	6/9
The above in 4 in., 6d. dozen extra.		Vest Pocket Safety Razors ...	6/9

GILLETTE BLADES U.S.A.

30/- per box of 10 dozen.

EVER-READY, AUTO-STROP, CLEMAK,
FLYING MAN BLADES, in Stock.

PRICE LIST ON APPLICATION.

STANDEN & PERKS,

GREAT LISTER STREET, BIRMINGHAM.

DON'T HESITATE

Send a postcard to-day for free sample boxes of Margerison's special Christmas lines.

Rose Leaves Complexion Soap Oriental Bouquet Christmas Roses

Each variety packed in artistic and attractive box containing three tablets.

The name Margerison is a guarantee of best quality.

J. MARGERISON & CO. White Windsor Soap Works, Preston.

Early indications point to record sales.

THE EVAN WILLIAMS' EMULSIFIED COCOANUT OIL SHAMPOOS

in liquid form (2 sizes)

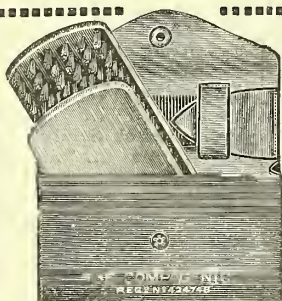
in powder form (packets)

They are well up to the Evan Williams' standard of production, sell freely, and give a handsome profit.

Write for "The Shampoo Salesman," which gives full details of all our Preparations.

THE EVAN WILLIAMS CO., LTD., 18 & 18a Ogle Street, LONDON, W.1.

The largest Shampoo Specialists in the world.



BIDWELL'S

'Compagenic' Hair Brush Set

as advertised in the daily and weekly papers.

Two Hair Brushes and Comb which only take up the room of one ordinary Hair Brush. Bristles of one brush fit in between the rows in other.

COST PRICE - Grey 7/6, White 9/6, Ebony 17/6

SELLING PRICE Grey 10/6, White 12/6, Ebony 25/-

CASTLE MILLS, AXMINSTER, DEVON.

(MAKERS OF THE CELEBRATED "GLORIA" TOOTH BRUSHES)

NOW
SELLING
EVERYWHERE
to Purchasers of Powders
and Face Creams.

KemOlite
Nature's Own Radio-Active Beauty Aid

**A MONEY-MAKER
FOR CHEMISTS**
Because every Pot sold sells more.

TERMS: Selling Price 6/6,
Trade Price 54/- per dozen.
19/6 Bonus (3 Pots) with
every 3 dozen order.

Sales Agents: **PENNEY & CO.,**
Cavendish House,
Old Cavendish Street,
LONDON, W. and
Bigg Market,
NEWCASTLE-
ON-TYNE.
*Also All
Wholesalers.*

"Newbery's"
FRANCIS NEWBERRY & SONS LTD.

Oil of Peppermint.

Pharmacists in their dispensing and manufacture should use Oil of Peppermint which is produced only from selected plants.

As the sole selling agents for Messrs. John Jakson & Co., Ltd., of Mitcham, the largest growers of Peppermint, we are able to supply Oil of Peppermint in sealed containers guaranteed to meet the B.P. standard.

FRANCIS NEWBERRY
& Sons, Ltd.
LONDON & CARDIFF.

Dentists treat Pyorrhea with Forhan's

CHEMISTS who sell Forhan's For the Gums receive valuable support from its very general endorsement by the dental profession. These experts in oral hygiene recognise that Forhan's is more than a tooth paste. They know that its constituent agents enable Forhan's to keep gums firm and healthy, to prevent Pyorrhea, if used regularly and in time. Many also recommend Forhan's as an adjunct to their own treatment for Pyorrhea cases, thus enabling the patient's co-operation at home.

The reputation which Forhan's has thus earned as a pleasant and safe preventive dentifrice, is an asset of the greatest importance. You can recommend Forhan's to your customers with confidence when leading dental authorities endorse its value.

Thos. Christy & Co.,
4-12 Old Swan Lane,
London, E.C.4.

Forhan's FOR THE GUMS

*More than a tooth paste
—it checks Pyorrhea*



PAPIER POUDRÉ

TRADE

MARKS



**British Made
Goods.**

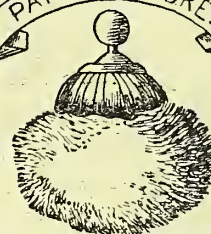
**Note our Trade
Marks.**

"LEHCARESOR."

Papier Poudre

*Beware of
Spurious Imitations.*

REGISTERED



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46 Baker St., Portman Sq., London, W. 1.
and at Paris.

**WHITE, ROSE or RACHEL Tints, 4d., 6d., 8d., and 1/4 size Booklets,
2/8, 3/9, 5/- and 10/- per doz. net, respectively.**

A NEW LINE IN PAPIER POUDRÉ.

**BOOK IN WHITE, ROSE or RACHEL TINTS, containing a neat Mirror,
Price 1/-, at 7/6 per doz. net. This should make a good selling article.**

Sample Set in the three tints sent on application.

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NEAT MIRROR CASES, 1/6 13/9 per doz. net.

REFILLS to Mirror Cases in White, Rose or Rachel, 4d. 2/8 per doz. net.

8d. SHAVING PADS, for Use after Shaving (unscented), white only ... 5/- per doz. net.

POPPŒA ROUGE

A most popular line.

(Regd.)

Made in booklet form. One size only, viz. 1/-, at 8/- per doz. net.

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2380

NON-SEPARABLE.

1 oz. ...	4/9 doz.
2 " ...	7/- "
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SEPARABLE.

1 oz. ...	5/3 doz.
2 " ...	8/- "
3 " ...	10/6 "
4 " ...	12/6 "

TOOGOOD'S BRILLIANTINES

IN
ASSORTED ODOURS.

SHOW CARDS
and
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free on 3 doz. of a style
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IN OVAL GREEN ENAMELLED
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Write for full illustrated list and specimens of labels.

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Expert Tuition for the **SIGHT-TESTING DIPLOMAS** of the Worshipful Company of Spectacle Makers (F.S.M.C.); the British Optical Association (D.B.O.A.), or the National Association of Opticians (F.N.A.O.).

Write for full particulars—

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WILLS' UNIVERSAL POSTAL SYSTEM

Fee (British Isles) - - - £1-1-0.

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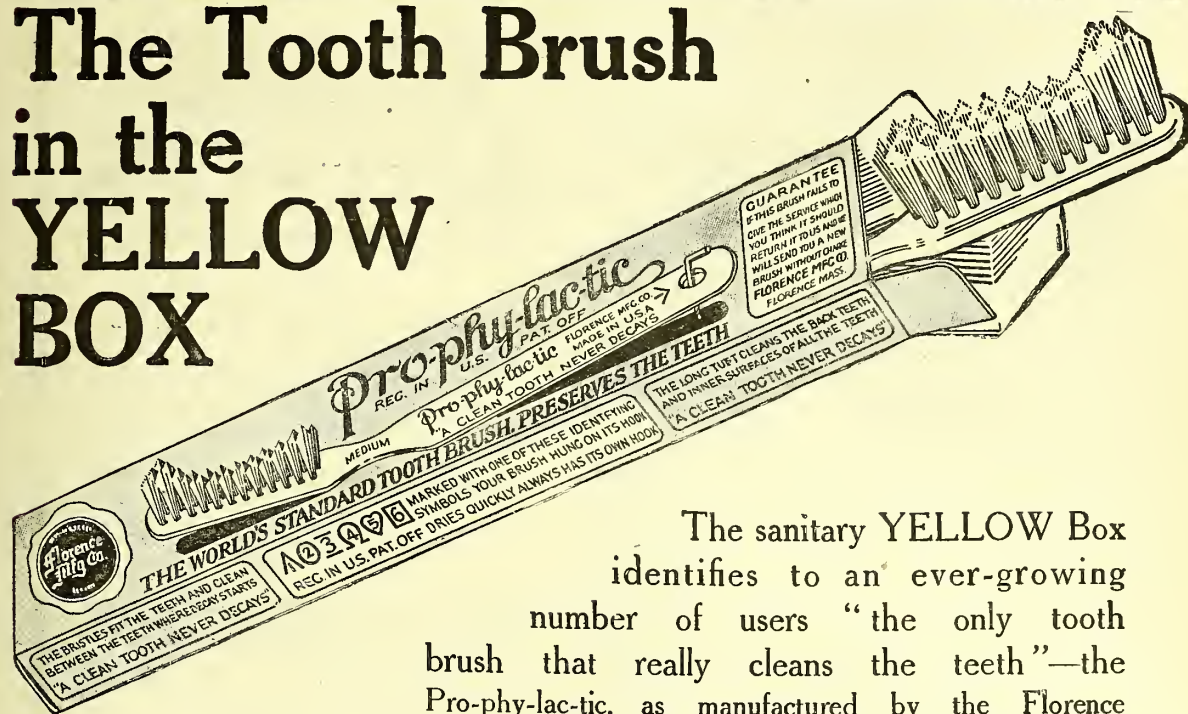
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GENUINE only in the **YELLOW Box.**

In 3 sizes—adult's, youth's, and child's ; in 3 textures of bristles—hard, medium, or soft ; one quality only—each in its individual YELLOW Box, with hook for hanging.

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We specialise in Bottles
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FEEDING BOTTLES

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Albert Glass Works,
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BELINDA GLASS WKS HUNSLET. CLARENCE GLASS WKS HUNSLET.
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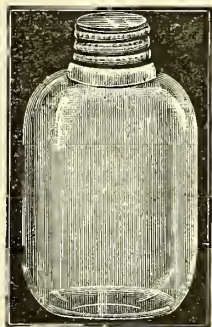
to secure his requirements at prices he knows to be genuinely cheap, yields him not only a good profit on his deal, but personal satisfaction that he has "bought right." We offer the following lines at phenomenally low prices to clear ;—

1½ oz. and 2 oz. FLINT SCREW POMADES
 (The former being a very useful Pomade owing to its large appearance.)
 TABLET BOTTLES... .. ALL SIZES
 BRILLIANTINE BOTTLES 1½ ozs. and 2½ ozs.
 PERFECT FLATS 2 ozs. and 4 ozs.
 FEEDING BOTTLES
 MALE SYRINGES ½ oz., 1 oz. and 2 ozs.
 ETC. ETC. ETC.

Write us for Prices.

WE WILL SURPRISE YOU!

CHEMICAL & LABORATORY GLASSWARE, TEST
 TUBES, VIALS, BURETTES, SAMPLE TUBES, &c. &c.



TABLET BOTTLE.



TWO-ENDED FEEDER.



Narrow-mouth SHOP
 ROUND

*Wholesale Only.
 No Retail Firms Supplied.*

JULES LANG & SON,

CHARLTON WORKS,

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 Telegrams: "ASSORTED, PHONE, LONDON."

Codes: A B C, 5th Edition. Scott's 10th Edition (1906).
 Bentley's Complete Phrase Code.

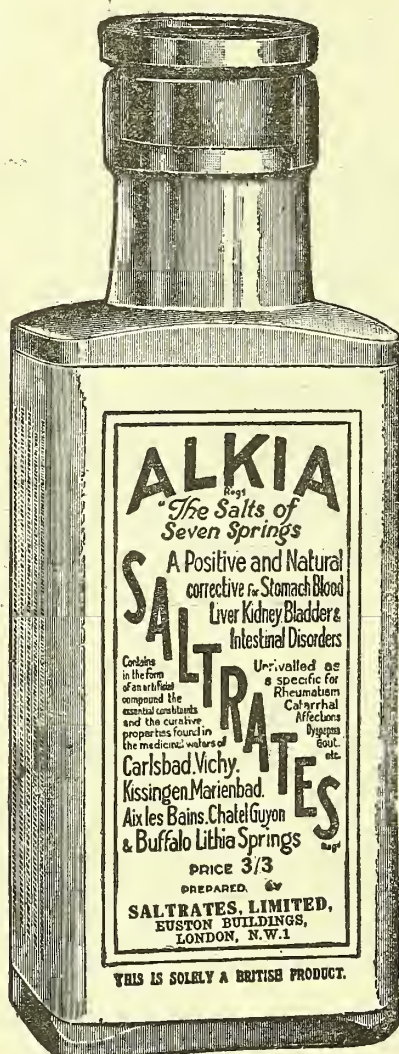
PLEASE MENTION THIS PAPER WHEN ENQUIRING.

Two Lines which you, Mr. Chemist

They always mean a pleased and satisfied Customer

With the help of our advertising you have
second and each successive sale is assured

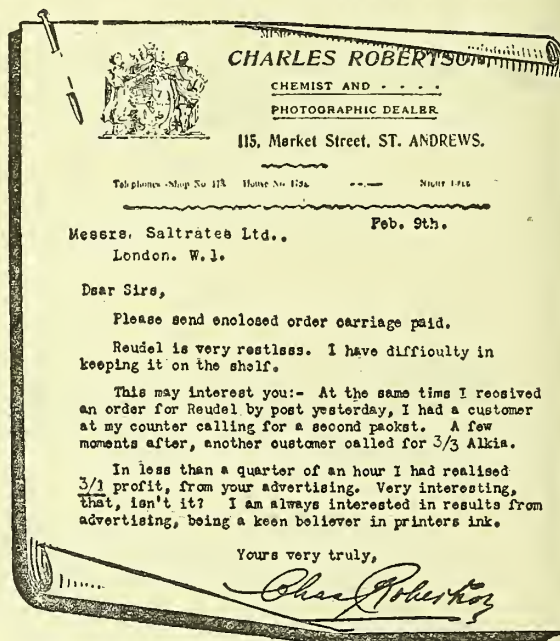
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ALKIA SALTRATES.

A widely advertised and quick selling product, which represents the maximum of possible efficiency in a saline, and the best value obtainable for the money. Being highly concentrated, exceptionally small doses are sufficient, and there is no trace of any salty or other unpleasant taste.

Protected on P.A.T.A. at the full face value of 3/3 a large bottle.



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JIMMY WILDE, World's Champion Boxer :—

"I am glad to testify to the part your Saltrates fulfil during my training periods. I am never without both and never will be."

A. F. (Peggy) BETTINSON, Founder and Manager National Sporting Club :—

I have no hesitation in recommending both Alkia Saltrates and Reudel Bath Saltrates, for all disorders arising from Uric Acid Trouble. Personal use satisfies me that no other preparations can equal your products for the elimination of the many ailments for which you advocate their use.

You have liberty to use my testimony in any manner desired.

BOMBARDIER BILLY WELLS, the popular boxer :

"While a physical instructor in the army I found both Alkia and Reudel to be almost indispensable for correcting and preventing the ills and pains to which Tommies are subject. Personally I take Alkia regularly and Reudel is always added to my bath."

We have hundreds of similar letters which

YOU CAN STOCK THESE GOODS

Carriage paid in United Kingdom on orders for 3 dozen, which are sent free on request. Display them in your window, and attract

Can Recommend with Full Confidence

because they do exactly what our advertisements say.

All these products the first time only. The quality of the goods themselves.

TESTIMONY FROM CHEMISTS

W. CORNISH, M.P.S.
THE PEOPLE'S CHEMIST
 The Oxford Pharmacy 188 Lower Ashley Rd.
BRISTOL

Messrs. Saltrates Ltd.,
 London, W.1.

April 24th.

Dear Sirs:- I was reading through reproduction of Mr Robertson's (St Andrews) letter on page twelve of to-day's date Chemist & Druggist and I think this afternoon I surpassed his feat. In my shop as above. Four customers following, purchasing Saltrates preparations. as follows

2/- Reudel Bath Saltrates	) All in
3/3 Alkia Saltrates	) five
2/- Reudel Bath Saltrates	) minute
3/3	) or so.

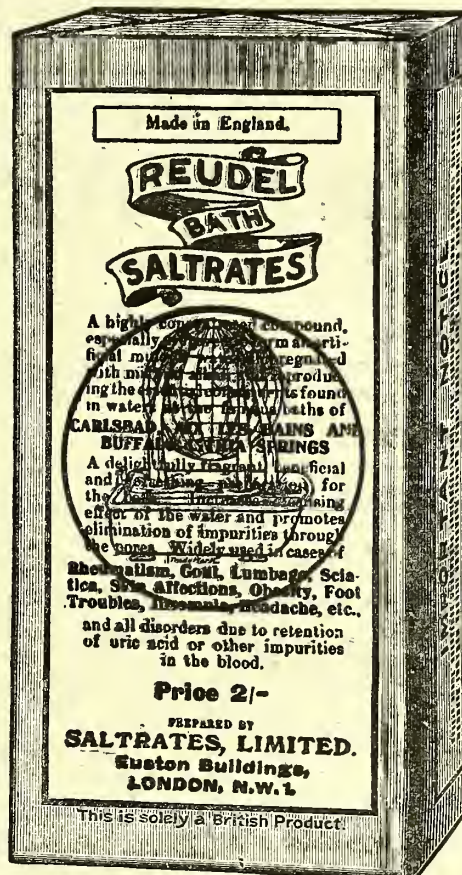
Later on in the day I was asked for another 2/- size Reudel, but in this case the customer would not take the 3/3 size, so I missed the sale, having just sold the last small package. I am quite prepared to admit that this is a coincidence that does not often occur, and probably was in part due to other brother Pharmacists being "Sold out". But your preparations are always good sellers with me.

I thought the foregoing would interest you, and it is absolutely authentic, as my Lady Assistant can witness. If the "Tale" wants adorning and I may "point a moral", I would say never load up your shelves with goods that stick there, but to borrow Mr Robertson's "Natty phrase fill up with 'restless' goods, which are restless to the point of removal for "Cash Till Food".

With compliments.
 Yours faithfully,

W. Cornish

REUDEL BATH SALTRATES.



SERS SAY :—

G. GEORGE, World's Champion Runner :—

have used Alkia and Reudel with remarkably good results. They are wonderful products, as everyone to whom I have recommended them agrees."

JOCK DONALDSON, World's Champion Sprinter :—

Alkia has no equal for rheumatic and uric acid disorders of all kinds. Reudel bath will keep the joints more supple than a dozen Turkish vapour baths. I could not do without them both."

GENE CORRI, of the National Sporting Club and the World's Premier Referee :—

have used both of your Saltrates compounds with the best possible results. Alkia is, in my opinion the ideal saline and Reudel could not be improved upon."

Lack of space prevents our re-printing here.

ON GUARANTEED SALE TERMS

assorted. Handsome Showcards of strong selling power and a business from our present extensive advertising campaign.

The most widely advertised and best selling line of its kind. Unequalled as a fragrant, refreshing, beneficial and all-round satisfactory preparation for the bath or for general toilet purposes.

Especially recommended in cases of foot trouble or rheumatic pains, stiffness, etc. Always extensively advertised.

Protected on P.A.T.A. at the full face values of 2/- and 3/3 (double size).

Season—1922



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GUARANTEED GENUINE.

Manufacturers :

BRØDR. AARSÆTHER A/S, Aalesund, Norway.

LARGEST MANUFACTURERS OF COD LIVER OIL IN NORWAY.

Wholesale only. In 25-gallon tin-lined barrels.

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Tel.: 12513 CENTRAL

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PURE LOFOTEN COD LIVER OIL

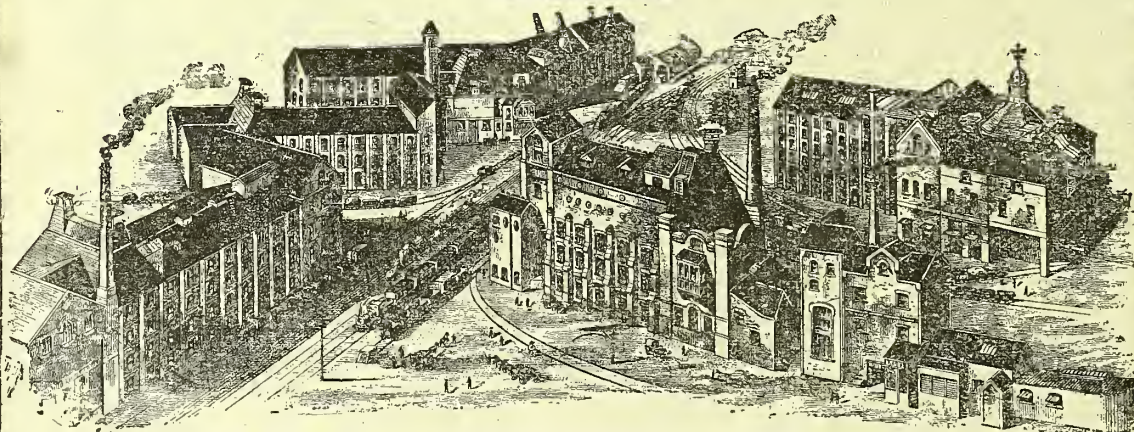
Manufactured by Johan Didrichsen, Kristiana, Norway.

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THE BEST AND SAFEST INFANTS'
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**DOES
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Fine Leaf Gelatine, Pure Calf.

"Albion" Brand (In 1-lb. Packets,
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Made in England.

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PURE SKIN GELATINES.
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of Beef, Mutton or Chicken
consists solely of the juice of
the finest meats, prepared
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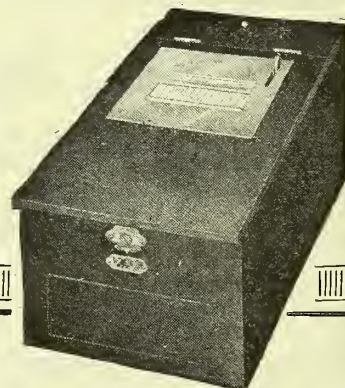
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Net.



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Specially low-cut prices for the Autumn 1922.

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If you have a
Wine License we
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If not, get one,
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You agree to display
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It has been established
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VITAMOGEN contains the essential
Vitamines in an active and concen-
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concentrated according to approved scientific
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VITAMOGEN stands alone as a means of
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food element.
VITAMOGEN is packed in two sizes, 2/9
and 5/9, obtainable from all the principal
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Collapsible Tubes



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is a **transparent** film of pure Cellulose, **absolutely** air, grease, and odour proof, **unaffected** by cold, heat or moisture, and **sterilisable**.

An **ideal wrapping** for Soap, Drugs, Tablets, Bath Crystals, Perfumery, Provisions, Sweets, Surgical Dressings, Articles of Toilet, Sponges, etc., etc.

Will keep your Goods, Boxes, Bottles, and delicate Labels **clean** on the Counter and in Shop Windows, allowing the Articles to be seen **by transparency**. Can be had colourless, coloured and embossed.

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PUTS PERMANENT CREASE IN TROUSERS

In collapsible tubes. Safe, simple, satisfactory

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MILLIONS ARE READING THE ADVERTISEMENTS
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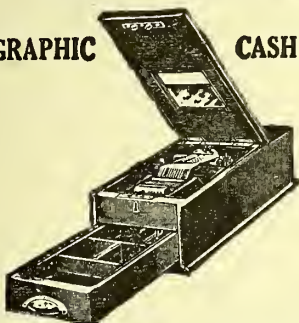
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Internal Mechanical Fittings, Check Action, etc., are of Solid Brass. Large cash capacity, and coin spaces are arranged for rapid handling of change, also special compartment for notes in drawer. The whole comprises a very solidly built, reliable and effective Cash Register, unapproachable at the

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Send us your pattern to quote from.

All makes and sizes.

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[3]

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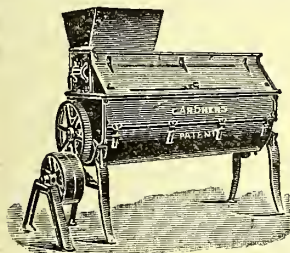
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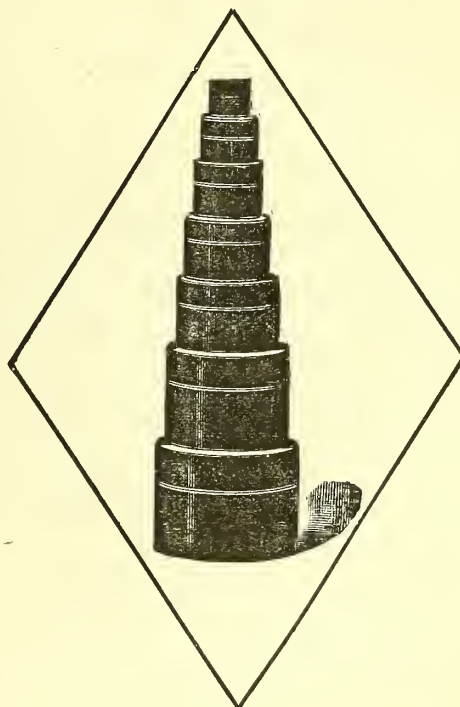
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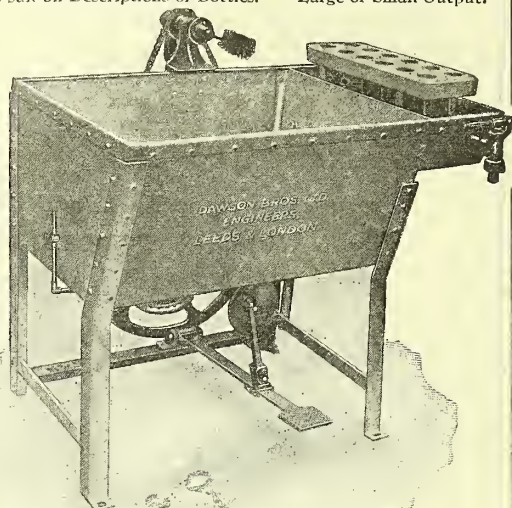
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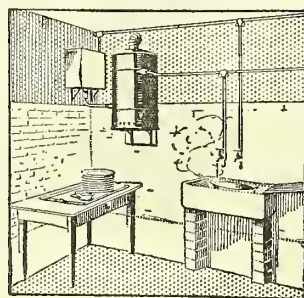
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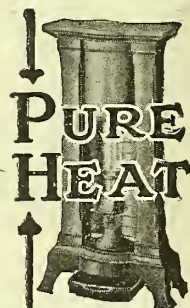
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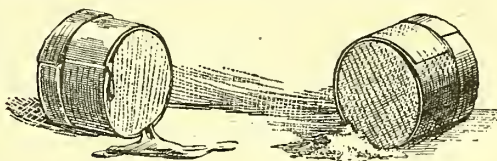
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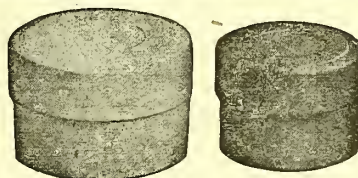
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COWS
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RETAIL PRICES :

3/-, 7/-, 15/-, and
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Invoiced to the Trade
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**ALL CHEMISTS
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THE GOLD MEDAL FRUIT DRINK.

Quick Seller. Big Profits. Over 40 years' Reputation.
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Sole Wholesale Distributors for United Kingdom:
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 157 Queen Victoria St., London, E.C.4.
"RAZORITE," Regd. 75 Aldermanbury,
 London, E.C.2.

There is Profit for the Chemist in "Razorite."

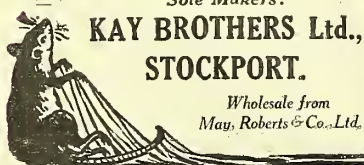
You've only to put "RAZORITE" on your counter and it will sell itself—that means extra Profits for YOU—easily earned.

"RAZORITE" is a specially prepared white oily powder which is sprinkled lightly on the surface of any ordinary or safety razor strop, and rubbed well in with the finger. Quite a simple little operation, but one that brings a wonderfully keen edge to even the dullest of razors. No wonder then that "RAZORITE" will sell freely wherever it is shown.

"RAZORITE" contains no emery or any other gritty substance, and is retailed in handy little sprinkler top containers at 1/6, which yield a generous profit to the Chemist. Get in a supply NOW and give "RAZORITE" a prominent display in your windows and on your counters, and link up with our forthcoming advertising campaign which will ensure a great demand for "RAZORITE" from men in your neighbourhood.

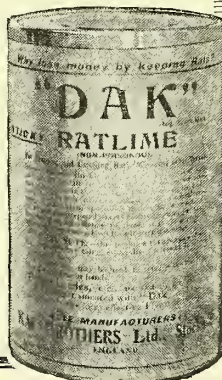
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OLD rats are too cunning for the poisoned bait or the ordinary trap. But even the most astute old stagers are outwitted and caught when DAK Ratlime is used. Thus, the Superintending Officer of — County, recounting a series of successes, says: "This DAK is certainly good stuff . . . here four huge grandad rats were caught." The Chief Sanitary Officer at — also writes: "When the rats are trap-shy, we have invariably found that trays (of DAK) are effective." DAK contains neither poison nor virus and can be used with absolute safety anywhere. Write for descriptive leaflet and particulars of liberal trade terms.



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In these troublesome times in Ireland, the two following testimonials received within a few days of one another prove conclusively that "Rodine" is the Rat Poison that matters where Rat extermination is necessary,

AND THE RAT POISON THAT IS IN DEMAND

Mr. J. M. Mangan, Chemist, Tralee, writes:—"29th July, 1922. I confidently recommend 'Rodine' to all my customers. It is a splendid article, and pays well."

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You can have "Rodine" on best terms at 4/-, 8/-, 16/-, 32/- per dozen, Minimum Carriage Paid Order £1 4s. This yields nearly 100% protected profit. Send your order now to the Maker—push "Rodine"—it pays.

HARLEY,
 MANUFACTURING
 CHEMIST,
 PERTH - Scotland.

*Which will
you do?*

You will have many calls for Aspirin during the coming winter. Will you supply ordinary tablets and risk a dissatisfied customer, or will you send

TRADE MARK 'TABLOID' BRAND
ASPIRIN

and make a permanent customer?

Which would you prefer if you were the other side of the counter?

The best way to answer this question is to order 'TABLOID' ASPIRIN.



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'Tabloid' Aspirin, gr. 5, in bottles of 25 and 100, at 10/- and 30/- per doz., respectively, and 0.5 gm., in bottles of 25 and 100, at 15/- and 45/- per doz., respectively.

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A WEEKLY JOURNAL OF PHARMACY AND OF THE CHEMICAL AND DRUG TRADES

THE CHEMIST AND DRUGGIST is in circulation and reputation the leading journal addressing the Chemical and Drug trades in the British Empire and other countries in the Old and New Worlds. It is the official organ of the Pharmaceutical Society of Ireland, the Chemists' and Druggists' Society of Ireland, and of other Chemists' Societies in the Overseas Dominions.

SUBSCRIPTION RATE

TWENTY SHILLINGS a year payable in advance to any part of the world, including a copy of *The Chemist and Druggist Diary*. Subscriptions may begin with the first issue of any month. Single Copy, 9d., post free; *Diary*, 10s., post free. Postal orders and cheques should be crossed "Bank of Liverpool and Martins, Ltd."

Prix de l'abonnement annuel: le journal une fois par semaine, et l'agenda une fois par an, 20s., franco.

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Head Office: 42 CANNON STREET, LONDON, E.C.4
Telegrams: "Chemicus, Cannon, London." Telephone: Central 3617 (3 lines).

Branch Offices: 49 County Buildings, 4 Cannon Street, Manchester. (Telephone: City 52).
Melbourne and Sydney, Australia.

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"The Chemist and Druggist Diary, 1923"

THE publisher asks us to announce that final instructions with regard to the advertisement section of the Diary have to be in the printers' hands by **October 31**. Will those business houses, therefore, who have not yet given definite instructions concerning the amount of advertising space they require kindly communicate at once with The Publisher, THE CHEMIST AND DRUGGIST, 42 Cannon Street, London, E.C.4.

LORD DAWSON ON PSYCHO-ANALYSIS.—Addressing the Medical Society of London recently, Lord Dawson said that the term "psycho-analysis" should be limited to the particular theory and practice set forth by Freud and his disciples, whereas many exponents of the new doctrine had parted from Freud's tenets and methods, while remaining under full responsibility for his teaching. The psycho-analytic treatment called for special action. Its operation was long; it was a strain on the mind of the patient; and the analyst could not control with precision the range of his operations. Too many of its practitioners were fanatics.

English and Welsh News

The Editor would be obliged if subscribers would send him marked copies of newspapers containing items of interest for insertion in this or other news sections.

Dental Board

Applications for registration have been received from the following persons on the grounds that they are pharmaceutical chemists or chemists and druggists, and that immediately before July 28, 1921, they had a substantial practice in dentistry, in the course of which they personally performed such operations and gave such treatment, advice and attendance as are usually performed and given by dentists. Any objection to registration must be lodged within one calendar month from October 16, and must be supported by evidence sufficient to show a *prima facie* case against registration.

Austin, James, Hainton Square, Grimsby.

McBride, William Hamilton, 197/9 Woodstock Road, Belfast.

Robertson, Robert, 25 St. John's Church Road, Folkestone.

A Professor on Degrees for Pharmacists

Interviewed by a representative of "The Yorkshire Evening Post" on the contemplated degrees in pharmacy that have been talked of during the past two or three weeks, Professor Arthur Smithells, C.M.G., F.R.S., B.Sc., F.I.C., remarked that such proposals are not new. "We ourselves at Leeds," he said, "considered the question some little time ago, at the request of the profession itself. Some of them are not satisfied with the training given at the pharmacy colleges, which too often are merely 'cramming' establishments. We sympathised with this sentiment, but at the same time we hardly felt the demand was important enough to justify the inevitable expenditure. Manchester University does, I believe, grant pharmacy degrees even now." The Professor went on to draw attention to the fact that the chemist and druggist does not occupy the place in the community which he did fifty years ago. He instanced as an example of the old-time pharmacist Mr. Reynolds, of the well-known Leeds firm, who was the first secretary of the Yorkshire College, the forerunner of the University.

Contracts

The following tenders have been accepted by the bodies named:

Chester Guardians.—Cheers & Hopley, chemists, drugs.
Eastbourne Guardians.—G. A. Harmer & Son, chemists, drugs.

Merthyr Tydfil Guardians.—Mr. V. A. Wills, chemist and druggist, drugs.

Theft Charges

At North London Police Court, on October 16, Benjamin R. Cochrane, errand-boy, charged on remand with stealing articles of the value of 11s. 7½d., the property of his employer, Mr. W. B. Dow, chemist and druggist (*C. & D.*, October 14, p. 520), was placed on probation. John W. Hutchings, mechanic, was sentenced to three months' hard labour for receiving the stolen property.

At Tower Bridge Police Court, on October 14, John Love (20) and George Henry Brown (26) were charged with stealing tablets of toilet soap, value £1 10s., the property of Wright, Layman & Umney, Ltd., their employers. A detective-inspector said that the prisoners admitted the offences. For some time past prosecutors knew they were being robbed on a very extensive scale, and that their soap was being sold much under its price all over London. Brown was fined 40s., and Love was sent to prison for two months.

At Mansion House Police Court, on October 13, Edward V. Pinchon, electrician, was charged with the unlawful possession of tubes of Kolynos dental cream, and with feloniously receiving goods. George E. Holton, Michael A. Poole, and Ernest Bennett, messengers in the employ of Barclay & Sons, druggists' sundriesmen, 95, Farringdon Street, E.C.4, were charged with being concerned in stealing Bovril, perfume, soaps, and other articles, the property of the company. Having heard the evidence, the

Lord Mayor said he was satisfied that Pinchon had incited the boys to steal. He was sent to prison for two months in the second division. The boys were bound over for twelve months.

Poisonings

The following cases of fatal poisoning, among others, have been recorded since our last report:—

At Oxford, Lilian Forbes, described as a dentist attached to the County Council schools clinic, committed suicide by taking creosote while of unsound mind. Sir William Smith, M.D., public analyst, remarked at the inquest that creosote was very rarely used for poisoning purposes.

At Hackney, London, E., a lad named Lockyer, aged five, died from poisoning by a tablet of mercury perchloride, obtained from his father's desk. The father said that the tablets were purchased in the United States six years ago, and used for lotions. A verdict of "Accidental death" was given.

A verdict of "Death from misadventure" was returned at an inquest held at Torquay, on the body of Eileen B. Ward, aged six. It appeared that the child died after eating some medicinal tablets in mistake for sweets, and Mr. Thomas Tickle, F.I.C., Ph.C., stated in evidence that he had found $\frac{1}{16}$ gr. of strychnine in the organs submitted to him.

At Preston, Lancs., recently, an inquest was held concerning the death of Elizabeth A. Winter, wife of a prominent tradesman. The evidence showed that the husband had used potassium cyanide for the purpose of cleaning jewellery, and the bottle broke. A chemist described the solution as containing $3\frac{3}{4}$ gr. to a teaspoonful. The husband gave his wife a drink from a cup, which must have contained some of the poison from the broken bottle, and the wife suddenly leaned back and died. After a long hearing, the jury returned a verdict of "Death from misadventure."

An inquest was held at Warrington, on October 16, on the body of Margaret A. Cooper, wife of a motor-bus driver. The husband stated that, against his wishes and instructions, the deceased took some pills to secure abortion. Two empty pill-boxes were found in the bedroom. There was no name or address of the makers on the boxes, and the police were of the opinion that they had been purchased at a herbalist's shop. A doctor said that death was due to some form of poisoning, probably lead poisoning, and the police were satisfied from inquiries that no one else was involved in the case.

An inquest was held by the West London Coroner, on October 17, on the body of Mary A. Burkinshaw, charwoman, who, the medical evidence showed, died in hospital from a corrosive poisoning, possibly mercurial. Mr. Robert Rowles Pratt, chemist and druggist, 94 Canterbury Road, Kilburn, stated he knew the deceased. On October 13 she bought 10 gr. of white precipitate. That quantity would kill, but was not rapid in its action. So long as it was sold by a qualified chemist, anyone could purchase that poison by observing the provisions of the Pharmacy Act. A cautious man goes further; for instance, witness would not sell the poison to a child. So far as the law was concerned, witness observed the regulations by putting a red label on the packet, with the name of the poison. The coroner, in summing up, remarked that the evidence was quite clear, and recorded a verdict of "Suicide while of unsound mind."

Birmingham

Mrs. H. A. Gale, who won the silver challenge cup for best performance on a motor-cycle at the Stourbridge meeting, is a lady dispenser in Birmingham.

Mr. F. H. Alcock, F.I.C., Ph.C., has again been selected to represent King's Heath on the dinners committee of the Birmingham "Daily Mail" Christmas Tree Fund.

Prior to the opening of and distribution of prizes at the Birmingham School of Pharmacy, Mr. E. White, member of the Pharmaceutical Society's Council, was entertained to luncheon by the council of the Birmingham

Pharmaceutical Association. Some amusement was caused by the fact that the number of persons present was thirteen.

Following the inaugural meeting of the Birmingham School of Pharmacy on October 11 (see p. 561), the past and present students held their first annual dinner at the White Horse Restaurant, Congreve Street. Fifty-seven members and friends sat down, and among those present were Mr. Edmund White, B.Sc., Mr. J. W. Atkinson, President of the Birmingham Pharmaceutical Association, and Mrs. Atkinson. Mr. W. E. Gough, President of the Students' Association, who occupied the chair, proposed the health of Mr. Edmund White. Mr. H. Berry, Vice-President, proposed that of Mr. and Mrs. Atkinson; and Mr. A. W. Gerrard gave the toast of "The Students' Association." The dinner was followed by a smoking concert; items were rendered by students and friends, to whom a hearty vote of thanks was accorded at the close of an enjoyable and memorable evening.

Leicester

The success of Mr. F. W. Goodess in winning the first prize (£100), as announced in last weeks *C. & D.*, in the De Luzu competitions, is another "feather in the cap" of Leicester pharmacy.

The record of the Leicester Pharmacy Cricket Club for this season is as follows:—Matches played, 15; won, 5; lost, 8; drawn, 2. This would have been much better if more practice had been indulged in. "Dropped catches and loose fielding," says one of the officials "was the cause of failure in many cases."

Liverpool

A central-area pharmacist whose weights, scales and measures were recently re-examined pays a tribute to the consideration and efficiency of the inspectors.

Liverpool is at present undergoing an invasion of representatives from firms anxious to "get in" first, and book orders for winter lines and Christmas perfumery.

Dr. J. Smeath Thomas, whose lecture on "The Ultimate Nature of Things," was on the programme of the Liverpool Chemists' Association on October 18, is lecturer in chemistry at Liverpool University.

The new officers of the Liverpool, Lancashire and Cheshire Rexall Club are as follows:—R. G. Edwards, Fallowfield, Manchester, President; R. Hothersall, Oswaldtwistle, 1st Vice-President; T. Hamer, Chorley, 2nd Vice-President; Harold Lomax, Fairfield, Liverpool, secretary and treasurer.

Bro. T. H. Corlett, chemist and druggist, Upper Parliament Street, was installed, on October 12, as W.M. of the Duke of Edinburgh Masonic Lodge. Many Pharmaceutical Masons accepted invitations to the installation, by the Duke of Connaught, of the Prov. Grand Master of West Lancashire at the Philharmonic Hall, on October 19.

The Liverpool "Echo" is carrying advertisements featuring "Rexall" and "Ucal" proprietaries. "Rexall" pharmacists and their "Ucal" brethren are both endeavouring to put up a good fight. Mr. S. F. Alder, Chrystoids (Chemists), Ltd., and Mr. W. J. Tristram (Burgess's) are three recent recruits to the ranks of "Rexall."

Manchester

Influenza is again coming to the fore, many hundreds of cases being reported. According to the daily Press, very few deaths have resulted.

The Pharmaceutical Association dinner on October 11 was attended by Mr. L. Moreton Parry and Mr. John H. Robinson, Liverpool. Such reciprocity is good in every respect.

Most striking is the card being exhibited in almost every pharmacy in Manchester and district, inviting people to visit the Chemists' Exhibition. A similar card (but with the notification that they are exhibiting at the Exhibition) is on show at various local wholesale houses.

The tenth Northern Exhibition of Photography is to be held from February 5 to March 3, 1923, in the City Art Gallery. The exhibition will be divided into four sections, comprising pictorial photographs in monochrome or colour, lantern slides, colour slides, autochromes, etc., and natural-history and scientific photography. Particulars may be obtained from Mr. Walter Johnson, 30 Hartington Road, Chorlton-cum-Hardy.

Further particulars concerning the plans of the Manchester Pharmaceutical Association and the Retail Pharmacists' Union for the week of the Manchester Chemists' Exhibition, November 20 to 25, will be found in the advertisement columns of this issue. To abridge the announcement would be to do it an injustice; but it may be mentioned that there are two prize essay competitions, window-display competitions, a smoking concert, and a mass meeting of the R.P.U. The last-named is fixed for the afternoon of November 22.

Past students of the Northern College of Pharmacy will be interested to learn that a reunion has been arranged for on the occasion of the forthcoming Chemists' Exhibition. Mr. Clayton and Mr. Lawson will be pleased to see as many past students as possible on Wednesday, November 22, at the Exhibition, City Hall, Deansgate, between the hours of 2.30 and 6 p.m. Tea will be served about 5 p.m. Any past student intending to be present is requested to send his or her name (unless already sent) to Mr. John Rennie, Tarn Grange, Rawdon, Leeds, so that the necessary arrangements may be completed.

Sheffield

Hospitals are now supplying artificial teeth to "poor" persons at somewhere near half the usual prices.

A meeting of the Joint Sub-Committee is to be held, on October 23, at the Town Hall, on the subject of test Insurance prescriptions.

Trade in the city is still very bad. It is understood that 203 persons per 1,000 are receiving parish relief, and between 30,000 and 40,000 are drawing the Government dole.

Mr. H. R. Cottee, chemist and druggist, has taken over a business lately carried on as a medical botanist's in Devonshire Street. Mr. Cottee has been manager at the Long Eaton branch of Boots, Ltd.

Miscellaneous

COCAINE-TRAFFIC CHARGE DISMISSED.—At Marlborough Street Police Court, London, on October 14, Alexandre Iassonides, charged on remand with being in unauthorised possession of cocaine (*C. & D.*, September 30, p. 455), was discharged.

MOTOR-CYCLE ACCIDENT.—While riding a motor-cycle on October 16, in the neighbourhood of Westcliff-on-Sea, Leonard Clark, a chemist's assistant, Leigh-on-Sea, was thrown from the machine and his skull was fractured. He died in the Victoria Hospital, Southend, on October 17.

PHARMACY ACT CASES.—In Bloomsbury County Court, London, on October 10, H. J. Curtis, drug-store proprietor, 168 Green Street, E.2, was fined £5, with costs, for having sold Izal.—At the same Court, F. Hunt, drug-store proprietor, 271 Cable Street, E., was similarly fined in respect of a sale of lysol.

COST OF LIVING.—It is announced by the Ministry of Labour that, on September 30, the average level of retail prices of all commodities taken into account in Ministry of Labour statistics was about 78 per cent. above that of July 1914, as compared with 79 per cent. on September 1, and 176 per cent. on November 1, 1920.

COMMERCIAL TRAVELLERS' CLOAK-ROOM FEES.—It is announced that from November 1 the cloak-room fee for bona-fide commercial travellers will be reduced from 3d. to 2d. a package, subject to proof of identity as genuine travellers. The membership card of the National Union of Commercial Travellers, or of some other such association, will be accepted as evidence.

REDUCTION IN PASSENGER FARES.—At a meeting held on October 17, the railway companies of Great Britain decided that on and from January 1, 1923, the general basis for third-class ordinary fares should be 1½d. a mile and for

first-class 2½d. a mile. Tourist and excursion tickets are to be proportionately reduced, but season and workmen's tickets will remain at their present level.

DYESTUFFS COMMITTEE.—The Board of Trade announce that following upon the resignations of Sir Harry V. Kilvert, Mr. G. W. Currie and Dr. M. O. Forster, from the Dye Stuffs Advisory Licensing Committee, which was originally set up in January, 1921, Sir Thomas Robinson, M.P., has been appointed chairman, and Mr. R. Waddington, M.P., and Professor G. T. Morgan members of the Committee.

FRESH LEGISLATION ASKED FOR.—The Camberwell public health committee has had under consideration the infantile mortality rate. Special attention had been drawn by the medical officer of health to the harmful results following the use of abortifacients by expectant mothers, and he expressed the opinion that legislation should be promoted to prohibit the sale by chemists or other persons of abortifacients except for legitimate purposes, and then only on production of an authenticated medical prescription signed by a fully qualified medical practitioner. The committee has decided to call for legislation on the lines suggested, and to urge the Ministry of Health to take the matter into consideration.

IN THE COURTS.—At Cardiff, on October 9, David Edward Williams (42), described as a chemist, was remanded on bail on a charge of obtaining the sum of £55 by false pretences.—At Northampton Quarter Sessions, on October 10, William Frederick Woolpert was sentenced to six months' imprisonment in the second division for maliciously damaging a plate-glass window, value £40, at the shop of Boots, Ltd., Gold Street.—At Marlborough Street Police Court, London, on October 14, Sir Almeric FitzRoy, Clerk to the Privy Council, charged with annoying persons using Hyde Park (*C. & D.*, October 14, p. 521), was fined £5, and ordered to pay £10 10s. costs. Notice of appeal was given.—At Barrow-in-Furness Police Court, on October 17, John Carnaby Marshall, described as a foreman, was fined £10, with £10 10s. costs, for keeping an illicit still. One witness said Marshall had told him he was making herbal remedies. Marshall denied the charge, and said he had used parts of the plant in steam-testing. He was a herbalist.

Irish News

Pharmaceutical Society of Ireland

Owing to local circumstances, our Dublin correspondent has been unable to complete his report of the Council-meeting held on October 10. A full account of the presentation of a piece of silver plate to Mr. W. F. Wells, a past-President of the Society, appears on p. 569 of this issue.

The following are the results of the recent examinations:—

PHARMACEUTICAL LICENCE EXAMINATION.—The following passed with honours: Thomas Robert Bourke, Longford; Eveline Hoy, Dungannon; Mary Paul Christy, Ballyglunin; Edmund Sydney Long, Belfast. The following also passed:—John Joseph Anderson, Dublin; Robert Harding Peake, Rathmines; Wm. Henry Roche, Dublin; Frederick Stephen John Smith, Dublin. (These names are in order of merit.) Eight candidates were rejected.

PHARMACEUTICAL ASSISTANT EXAMINATION.—John Joseph Joyce, Urlingford, passed.

REGISTERED DRUGGIST EXAMINATION.—The following passed:—Wm. John Farmer, Belfast; Eugene Judge, Youghal. One candidate was rejected.

PRELIMINARY EXAMINATION.—The following passed:—Eric Leopold Grubb, Waterford; Ellen Brennan, Castlecomer; Patrick Hanly, Limerick; Arthur Louis Ferguson, Londonderry; Wm. John Gardner, Dun Laoghaire; Philip Smith, Kells, co. Meath; John Robert Lawless, Monaghan; Abram Judah Myers, Bangor, co. Down; Gertrude Kelly, Belfast; Eva Mary Kathleen Monahan, Dublin; Christina Mulholland, Armagh; Jeremiah Joseph Burke, Castlepollard; Dominick Vincent McEaney, Ardee; Frances Gilmartin, Dalkey; Bridget Anne Traynor, Shercock; Goodwin Norman MacNeill Carleton, Larne. Seventeen candidates were rejected.

Brevities

The house of Mr. W. Dowling, Ph.C., Tralee, situated at the Spa, three miles outside the town, has recently been burned down.

Portadown Chamber of Commerce has passed a resolution of sympathy with the widow of the late Mr. Daniel Chapman, R.D., who passed away not long since.

At the Londonderry Sessions, Mr. John Maxwell, Ph.C. (Prior & Co.), was awarded a decree for £13 7s. 6d. in respect of malicious damage to a plate-glass window in his shop.

At Londonderry Recorder's Court recently, Mr. J. F. O'Donnell, Ph.C., The Diamond, sought compensation for malicious injury to his shop-window. Two boys had been wrestling near the shop, and one threw a stone at the other. The missile missed the boy and smashed the window. Judge Osborne held there was no malice, and dismissed the application.

Belfast

Sir William Whitla, M.P., L.P.S.I., has been appointed President of the City of Belfast Y.M.C.A.

Mr. T. W. McMullan, M.P. (Thomas McMullan & Co., manufacturing chemists), has been elected a patron of Belfast Arts Club.

At the annual meeting of the Belfast and District Chamber of Trade, on October 16, Mr. J. C. Culbert, M.C.P.S.I., Connswater, was unanimously elected President. Mr. Culbert, on taking the chair, returned thanks on behalf of the drug-trade. In outlining the programme for the year he referred to the holding of an international exhibition in Belfast, and the education of traders and the public in the true functions of distribution.

Dublin

The pharmacy of Mr. J. A. Doyle, Ph.C., 363 North Circular Road, was raided by armed men on October 13, and £18 in cash was taken away.

The Wholesale Druggists' Association has decided to withdraw the demand for a reduction of the workers' wages for the present. A conference to adjust matters in dispute between the Association and the employees has been summoned.

Cameras, bandages, port wine, and £10 in cash were taken from the premises of Mr. M. J. O'Connell, Ph.C., 78 Amiens Street, on October 16. The raiders left a receipt for £21. Three armed men took 15s. from the establishment of J. Leonard & Co., chemists, 1 Parnell Street, recently.

Scottish News

Brevities

At the opening of the new session at St. Andrews University, Principal Irvine intimated that steps were being taken to institute a degree in commerce.

The pharmacy students at Robert Gordon's Technical College, Aberdeen, have written to the local Press complaining of the manner in which they have been treated over their attempt to re-open the "Pharmacy Circle," the students' organisation for the discussion of such matters relating to pharmacy as do not naturally fall within the scope of the ordinary lectures and class work.

Edinburgh

T. & H. Smith, Ltd., announce that all goods will in future be priced net.

The parish council has appointed Dr. R. W. Inkster as surgeon, in succession to the late Dr. W. B. Alexander, a brother of Mr. H. D. Alexander, chemist and druggist, Lauriston Place.

The balance-sheet of St. Cuthbert's Co-operative Association, Ltd., for the half-year ended September 5, shows net sales in the drug departments as follows: Bread Street, £3,633; Tyne-castle, £1,711; Hamilton Place, £1,319; Nicolson Street, £1,549; Montrose Terrace, £901; Haddington Place, £1,356; Morningside Road, £886.

In an address on "What is Nature Cure?" before the Personal Health Association recently, Mr. J. C. Thomson, Edinburgh School of National Therapeutics, said if there were no chemists' shops open for the purpose of supplying the human body with drugs there would be practically none of the terribly destructive diseases they knew to-day.

Edinburgh Chemists' Golf Club held a competition for the Pinkerton-Gibson trophy over Cammo course on October 4, with the following result: (1) K. J. C. McLennan, 87-15=72; (2) J. W. Brown, 95-18=77, W. F. Rosie, 91-14=77 (equal); special prize for second class, R. L. Munnoch, 102-23=79. The closing competition of the season will be held over Duddingston course on November 1, when the Mackay and Pinkerton-Gibson trophies will be played for. After the competition the annual business meeting will be held at the clubhouse, Duddingston.

Fife

Mr. J. Carmichael, chemist and druggist, Leslie, has been appointed treasurer of Rothes Curling Club.

Dr. Jane Watson McDonald, daughter of Mr. Angus McDonald, chemist and druggist, Dunfermline, has obtained a diploma in public health.

Mr. R. S. Ramsey, chemist and druggist, Cardenden, has been elected President of the Bowhill Curling Club and treasurer of the Auchterderran Golf Club.

Glasgow

Mr. W. Sholto Sheppard, resident representative in Edinburgh for Parke, Davis & Co., read a paper on a new type of aircraft of his own invention and design at the annual meeting of the Scottish branch of the Royal Aeronautical Society, held in Glasgow on October 11. Mr. Sheppard gave a technical description, illustrated by lantern slides, of his proposed flying machine, for one type of which, carrying 300 passengers, the cost per head of fuel on a journey from London to Paris is estimated at just under 1s. 6d. per passenger.

In his inaugural address to the students of the Anderson College of Medicine, on October 11, Professor J. A. Thompson, Aberdeen University, said that on subtracting from the animal prescriptions those that seemed quite superstitious, there remained some that were reasonable, and a few which suggested glimpses of modern discovery. Thus decoctions of ants, rich in formic acid, and diets of snails—the poor man's oysters—might well have useful results. The use of snake's bile as a counter-active to the venom was confirmed by modern research, and in the prescription that the coward should eat the raw heart of a lion, or that the jaundiced should try the liver of a fox, they might detect an adumbration of the modern thyroid treatment of cretinous patients. One of the characteristic features in the history of twentieth century zoology and medicine had been the rise and progress of protozoology into a science almost as important as bacteriology.

Coming Events

This section is reserved for advance notices of meetings or other events. These should be received by Wednesday of the week before the meetings, etc., occur.

Wednesday, October 25

National Association of Women Pharmacists (London Group), The Plane Tree, 105 Gt. Russell Street, W.C., at 8 p.m. Whist-drive. Tickets 3s. each.

Thursday, October 26

Chemical Society, Institution of Mechanical Engineers, Storey's Gate, London, S.W., at 8 p.m. Lecture by Sir W. H. Bragg, F.R.S., and Prof. W. L. Bragg, F.R.S., on "The Significance of Crystal Structure."

West Ham Association of Pharmacists, Y.M.C.A., Woodgrange Road, Forest Gate, at 3 p.m. Lantern lecture on "Window-dressing" by Mr. C. E. Whyatt (National Cash Register Co., Ltd.). Members of other associations and their assistants invited.

Legal Reports

An Irregular Sale.—At the South-Western Police Court, London, recently, Mr. Frederick William Duckett, chemist, 288 York Road, Wandsworth, was summoned for selling a patent medicine unstamped. Mr. Harrington, prosecuting, said it was in one way a very small matter. An Excise officer went to the defendant's shop, and, after making other purchases, asked for a small packet of De Witt's pills. The defendant sold the officer an unstamped packet. The makers sent out large quantities of small packets as samples, and they were not intended for sale. The packet was marked "Complimentary." An Excise officer deposed to purchasing the packet, for which 1d. was charged. The defendant, giving evidence, said he could not recollect the matter. The Magistrate: Have you ever sold a packet like that? Defendant: The fact is, if I sold that packet I must have sold it when I was distracted. We sell Beecham's pills in small packets. We open a large box and divide it. I must have thought it was one of those. Dismissing the summons under the Probation of Offenders Act, the magistrate warned Mr. Duckett to be more careful in future.

A Box-making Dispute.—At Edmonton County Court, on October 16, an action for breach of warranty was brought by the Star Box Co., Rhodeswell Street, Stepney, London, E., against Edwardson & Co., glue manufacturers, Brimsdown, Enfield Highway. It was stated that in June the plaintiff firm ordered 5 cwt. of "boxmakers' glue," at 28s. per cwt., from the defendants, and it was alleged that when one cwt. was being used it gave off an offensive odour. Plaintiffs used it in the manufacture of 20 gross of cardboard boxes for Yardley & Co., Ltd., New Bond Street, W., for the sale of perfumed soaps. When the company took delivery the buyer detected what he wrote of as "a fish-like odour." It was stated in evidence that he declined to accept the boxes, although plaintiffs offered to reduce the charge by 20 per cent. For the defence, the traveller who took the order denied that a guarantee was given; and another witness (Mr. Edwardson) stated that, although they supplied glue to such firms as Pascall's and Fuller's, no complaint had ever been received until this case. Mr. E. J. Parry, B.Sc., F.I.C., said there was no evidence about the boxes of decomposed glue being used. His honour held that there was no expressed or implied warranty by defendants' representative. He accepted the evidence of Mr. Parry that the glue would have given a foul smell if decomposed. If it had been so it would have been easy to call the girls who used it. Judgment for defendant, with costs.

Veterinary Slander Action.—Before Mr. Justice Darling in the King's Bench Division, on October 16, Sir John McFadyean, Principal of the Royal Veterinary College, Camden Town, London, N.W., claimed damages from Mr. J. C. Coleman, veterinary surgeon, Swindon, for alleged slander. The occasion of the alleged slander was a resolution proposed by Mr. Coleman at a meeting of the Royal Counties Veterinary Medical Association, deprecating Sir John McFadyean's method of approaching stock-owners to supply them with serums and vaccines, and appealing that the council of the Royal College of Veterinary Surgeons should take action to prevent recurrence. Sir John, as Principal of the Royal Veterinary College, had instituted a scheme for providing tuberculin for use on pedigree herds of cattle, and proposed after the vaccine had been administered by a local veterinary surgeon to send one of the college surgeons to make a test of freedom from tuberculosis, and give a certificate. The Royal College of Veterinary Surgeons, which considered the matter, ruled that there was no case of unprofessional conduct against Sir John. Mr. Justice Darling said the issue was a simple one. There was no doubt the words were spoken of the plaintiff by the defendant, but they may be privileged, and, moreover, privilege would be lost if the person used the occasion maliciously. The jury returned a verdict for the defendant, and judgment was entered accordingly.

Certificate Fraudulently Obtained.—At the Central Criminal Court, London, on October 13, James Bernard Daws (24), described as a chemist, pleaded

"Guilty" to stealing a motor-cycle and certain motor Excise licences, and to a further charge that "for the purpose of procuring a certificate of the registration of William Kirk Daws on the Register of the Pharmaceutical Society of Great Britain he made in writing a declaration which he knew to be false." Mr. Glyn-Jones, barrister, who prosecuted, said that the prisoner, the son of a duly qualified chemist and druggist, wrote to the Pharmaceutical Society in the name of his father notifying a change of address, and asking for a fresh certificate. He (counsel) could not say what use the prisoner intended to make of the certificate, but undoubtedly the possession of it would facilitate the obtaining of poisons and possibly of "dangerous" drugs. It would not be in the public interest if these certificates were to get into the hands of people not entitled to them. The Recorder: Of course it would not. It is not necessary for the Pharmaceutical Society to tell me that. It is a most dangerous thing to do. Do I understand that anybody having possession of this would have a much better chance of getting "dangerous" drugs? Mr. Glyn-Jones: Under the Dangerous Drugs Act not only must a person be qualified, but he must also be engaged in business to obtain such drugs. The prisoner's father was called, and in reply to the Recorder said he was a duly-qualified chemist, holding one of the certificates. The Recorder: Do you know why he got this?—I believe he got it with the idea of going either to Canada or one of the Colonies and starting as a chemist. Mr. Daws went on to explain that his son was wounded two or three times in the war and also gassed, and since then he did not think his son had been quite normal. Before the war, for instance, he would never have stolen a bicycle. The prisoner, addressing the Court, said he obtained the certificate with the idea of getting a better situation. A detective stated that the prisoner had a disability pension of 7s. a week: all through his Army career he had a very good character. The Recorder said that no doubt the prisoner's mind was unbalanced by the war. He had obtained the Society's certificate in a manner which in law amounted to a misdemeanour. It was very dangerous, and it would have been unfair to his employers if they had employed him on a false certificate. He sentenced him to nine months' imprisonment in the second division.

Gazette

Partnership Dissolved

WOOD, F. C., and HALE, M. R. H., 181 Queen Victoria Street, London, E.C., chemical merchants and manufacturers, under the style of the Esitol Chemical Co.

Bankruptcy Acts

ADJUDICATIONS

LEVIN, B., 16 Deansgate, Manchester, chemical manufacturer.

SHERMAN, B., 21 Sugar House Lane, Stratford, London, chemical manufacturer.

MAGASINER, G. G., 178 Brick Lane, and 254 Green Lanes, London, chemist and dentist.

DE CESARI, E., 9 Amptill Square, Hampstead Road, London, N.W. 1, manufacturer of vermin-killer.

RECEIVING ORDERS

SHERMAN, B., 21 Sugar House Lane, Stratford, London, chemical manufacturer.

MAGASINER, G., 178 Brick Lane, and 254 Green Lanes, London, chemist and dentist.

DE CESARI, E., 9 Amptill Square, Hampstead Road, London, N.W. 1, manufacturer of vermin-killer.

AN ancient spa-water well at Leamington has been sold at auction for £350.

LONDON CHEMISTS' GOLFING SOCIETY.—The next annual dinner of the London Chemists' Golfing Society has been fixed for March 8, 1923, at the Connaught Rooms, W.C.

Bankruptcy Reports

Re John Robinson Hex, 12 Regent Street, London, W.C., company director.—The adjourned first meeting of creditors was held recently before Mr. F. T. Garton, Official Receiver, at the London Bankruptcy Court (*C. & D.*, September 16, p. 394). The chairman reported that the debtor had lodged a statement of affairs showing liabilities £552 and assets valued at £2,520. He had also submitted a proposal for the payment of the debts in full by instalments, but there was no security provided for the payment of the money. The meeting was adjourned till October 19, to enable the proposal to be put in order.

Re Robert Haslam Jackson, 3 Essex Court, Temple, London, E.C., Chemical Merchant.—The first meeting of creditors under this failure was held last week at the London Bankruptcy Court before Mr. F. T. Garton, Official Receiver. It transpired that the debtor, who was also a journalist, had traded as a merchant in chemicals at 19 Devereux Court, Strand. In June last he converted that business, which was named the "Phildes Products Co.," into a limited company, with a nominal capital of £1,000; as vendor he received 100 shares of £1 each, and acted as a director until he resigned office last August. The company is still in existence, and the debtor attributes his failure to litigation. The liabilities are roughly estimated at £2,500, and it appears that the only asset was a reversionary interest. The case was left with the Official Receiver to be wound-up in bankruptcy.

Re Enea de Cesari, 9 Ampthill Square, Hampstead Road, London, N.W., Vermin Killer Manufacturer.—The first meeting of creditors was held on October 13, at the London Bankruptcy Court, under this failure. A receiving order having been made on September 29, upon the petition of a creditor. Mr. Waterer, Official Receiver, reported that the debtor came to this country about 1887, and was in employment up to 1900, when, with practically no capital, he commenced trading on his own as E. de Cesari & Co., at 5 Gresse Street, Rathbone Place, W., as a vermin killer and destroyer. The firm was duly registered under the Business Names Act, and in 1913 he was joined by another person in partnership, and they continued to trade under the style of The Vermin Killer Co., at 15 Bersey Street, London. The net profits were shared equally. Just before he was joined in partnership, the landlord of 15 Bersey Street gave him notice to quit, and his partner subsequently took over the lease and debtor became his tenant. In December, 1921, the landlord commenced proceedings for delapidations for which debtor was held liable, and subsequently judgment was obtained against him by default for about £1,400, which he had been unable to meet. In 1917 the firm's trading name was altered to the A B C Vermin Killer Co., and the business was still being carried on under that name. He estimated his liabilities at £1,400 to the petitioning creditor. As regards assets, he had cash at bank £23, apart from his interest in the partnership referred to. He attributed his present position to the action of the landlord in proceeding against him for damages for breach of covenant under a lease. In the absence of any offer, the case was left in the hands of the Official Receiver.

Re Percy Seddon, 32 Rochdale Road East, formerly at 30 Bridge Street, Heywood, near Rochdale, described as a chemist. A meeting of creditors of above was held at Bolton Bankruptcy Court on October 17. The Official Receiver's statement showed that the gross liabilities amounted to £679 2s. 8d., of which £600 5s. 1d. was expected to rank for dividend. It was estimated that the assets would produce £249 1s. 9d., leaving a deficiency of £306 3s. 4d. The causes of failure stated by the debtor were: "Over buying and consequent depreciation of my stocks, cotton strike in Heywood in 1921, and my continued ill-health during the past eighteen months." Answering questions asked by Mr. Murgatroyd, the Deput. Official Receiver, the debtor stated that he was now 35 years old. He was apprenticed as a pharmaceutical chemist at Sheffield, but he was not fully qualified because of the war. After being with a firm in Sheffield he was

for six years with Mr. Jacques, chemist, at Heywood, remaining until he joined the Army in 1914. He was discharged in 1919, and returned to the employ of Mr. Jacques. In December 1919 he bought one of Mr. Jacques's businesses at 30 Bridge Street, Heywood. That was not the shop at which he had been employed, and he had had no previous experience of the business carried on in it. He bought the business because he thought it provided an opening for him, as he knew many people in Heywood. The debtor could not say why Mr. Jacques wished to sell the business; he (debtor) thought it was a good thing, and he got the money to pay for it. He did not inquire what the takings were; he had known the shop for many years, and he thought it must have been going on well, or Mr. Jacques would not have kept it on. It was in a good position, he was well known, and he thought he could have worked it into a good thing. Mr. Jacques offered him the business for £250, and he did not bargain with him at all, but took his word for it and paid £250. Really the business was not worth £250. To purchase the shop he borrowed £300 and paid 5 per cent. interest for the money. The first year, 1920, was all right, and he met his bills. His takings were about £30 per week, and his expenses for rent, rates, light, repairs, etc., were about £100 a year. The profits, he thought, were between £5 and £8 a week. He was guessing the amount; he did not know exactly. He did not go into these details; he was carrying on all right and not going into debt at all. In 1921 business was not so good, and the takings were only between £20 and £25 per week. His average profits would be between 3s. and 5s. in the £. Taking the profits at 4s. in the £, this meant that on £30 per week there was a profit of £6, and, allowing £2 for expenses, this left him £4 per week for himself. On £20 per week there would be £2 per week for himself, and that was not sufficient to live on. His illness affected the trade in the shop. He had been with the Army in the East, and at intervals he suffered from malaria. The takings in 1922 were less again, being only from £18 to £20 per week. The business was also affected by the cotton trade dispute, and as he had to be away from the shop through illness he lost more custom. He bought stocks fairly heavily, and prices went down. In March he went to a moneylender and borrowed £50. He wanted the money because he was studying, and was going to college to qualify, and also for business purposes as well. Only two creditors had sued him, one being the moneylender referred to. He kept a cash book until last October, and then, through the death of a lady cousin in Sheffield, he seemed to lose all interest in affairs. At that time he was very depressed. Two months before he filed his petition he found that bills were accumulating. He had paid his accounts to the end of 1921, and all his difficulties had happened in 1922. Mr. Murgatroyd: Have you been drinking?—The Debtor: No, sir.—Is the great cause of your failure the fact that you gave way to drink?—No, sir.—When questioned as to why he did not attend at the Official Receiver's office when requested, debtor said he had been so depressed. None of the creditors attended to put questions, and the examination was declared closed.

Deeds of Arrangement

Hayton, Edmund James, jun., Crown Street, Butcher-gate, and 6 Hart Street, Carlisle, wholesale druggist.—Dated, October 6; filed, October 9. Liabilities unsecured, £779; estimated net assets, £320. Trustee: E. J. Williams, 14 Lowther Street, Carlisle.

Ferris, Bertie, trading as Thomas Smith, the People's Drug Stores, 84 North Street, Bedminster. Dated, September 29; filed, October 6. Liabilities unsecured, £605; estimated net assets, £400. Trustee: P. S. Booth, 14-17 Holborn Viaduct, London, E.C. Among the creditors are: Ashton & Parsons, Ltd., £11; Houghtons, Ltd., £64; Evans, Gadd & Co., Ltd., £11; National Drug Co., £23; Isola, Ltd., £20; Wands, Ltd., £12; Griffiths Hughes, Ltd., £10; D. & W. Gibbs, Ltd., £10.

New Companies and Company News

P.C. means Private Company and R.O. Registered Office

GIBSON'S PURE DRUG CO., LTD. (P.C.).—Capital £3,000. Objects: To carry on the business of manufacturing, wholesale and retail chemists, dealers in drugs, chemicals, oils, perfumes, wines, spirits, paints and minerals, etc. R.O.: 187 Gooch Street, Birmingham.

JOHNSTON, CHEMIST (DEVONPORT), LTD. (P.C.).—Capital £2,000. Objects: To acquire the business of a chemist, druggist and vendor of medicines, proprietary articles and fancy goods carried on at 12 William Street, Devonport. B. D. Johnston, 34 William Street, Devonport, is permanent managing director.

DRY-CLENE, LTD. (P.C.).—Capital, £1,000. Objects: To take over the business of manufacturing and selling Dry-Clene and D.C. powders for the cleaning of glass and plate respectively, together with certain other D.C. specialities carried on by A. R. Roberts at 11 Albion Place, E.C. 1, as the "Dry-Clene Co." R.O.: 11 Albion Place, London, E.C. 1.

EDWARDS PHARMACY, LTD. (P.C.).—Capital £250. Objects: To acquire the business of a chemist carried on by J. Edwards at 53 Rosemary Road, Peckham, S.E., as "Edwards Pharmacy." The first directors are: J. Edwards, 53 Rosemary Road, Peckham, S.E., druggist; Mrs. Clara S. L. R. Edwards, 53 Rosemary Road, Peckham, S.E.; and M. Jones, M.P.S., Auld Reekie, Cecil Park, Pinner. R.O.: 53 Rosemary Road, Peckham, London, S.E.

E. J. FINLAY & Co., LTD. (P.C.).—Capital £1,000. Objects: To carry on the business of drysalts, pharmaceutical, manufacturing and general chemists and druggists, soap manufacturers and boilers, manufacturers of and dealers in toilet requisites, manufacturers of boxes and cases made of card, wood, metal or otherwise, etc. The first directors are: W. Finlayson, 10 Southcoates Avenue, Hull; and A. E. Jackson, "Rosedale," Ings Road, Sutton, near Hull.

SAINT MARYLEBONE PREPARATIONS, LTD. (P.C.).—Capital £1,000. Objects: To acquire the prescription and machinery for making the preparation known as "Vitoleum Cream" as prepared by B. Pearson, and to carry on the business of manufacturers of and dealers in patent and other foods and medicines, etc. The first directors are: B. Pearson, 77 Welbeck Street, W. 1; H. O. G. Holt, 24 Portland Place, W. 1; and J. Boynton, 2 Park Square West, Regents Park, N.W. 1. R.O.: 2 Great Barlow Street, Marylebone, London, W.

DUNESSE (POLISHES AND PREPARATIONS), LTD. (P.C.).—Capital £2,000. Objects: To adopt an agreement with C. F. O. Hamley and to carry on the business of manufacturers' agents and distributors of all kinds of goods, merchants, importers and exporters, warehousemen, chemists, druggists, drysalts, oil and colourmen, importers and manufacturers of and dealers in pharmaceutical, medicinal, chemical, industrial and other preparations, cements, oils, paints, pigments, polishes and varnishes, etc. The first directors are: C. F. O. Hamley, 33 Charing Cross Mansions W.C. 2; W. E. E. Stone, 36 Frognal, Hampstead, N.W. 3; and H. S. Watson, 223 Finchley Road, N.W. 3. Solicitors: Godfrey & Robertson, 40 Chancery Lane, London, W.C. 2.

BENGER'S FOOD, LTD., announce an interim dividend on the £1 ordinary shares at the rate of 9d. per share, free of income tax, for the six months ending September 30.

SORBO RUBBER-SPONGE PRODUCTS.—The accounts for 1921, including £2,853 brought in, and after providing £7,155 for advertising, reserving £1,065 for difference in exchange, and transferring £2,000 to depreciation fund, making £6,000, show credit balance of £2,111 to be carried forward.

REVILL'S DRUG STORES, LTD.—At a meeting held at Hornchurch on October 4, it was resolved that this company be wound up voluntarily. Mr. W. H. Izod, St. Issey, Stanley Road, Hornchurch, was appointed liquidator, and a meeting of creditors will be held at 181-183 High Street, Hornchurch, on October 20, at 4 p.m.

SADLER & Co., LTD.—The profit for the year ended June 30, 1922, after charging income-tax, interest on pre-paid shares, directors' and auditors' fees, and making provision for corporation tax, was £10,913, plus £9,900 brought in, making £20,813, less set aside for depreciation, £7,000, leaving £13,813. A dividend of 6 per cent., less tax, is proposed, carrying forward £6,592.

CHEMISTS' MUTUAL INSURANCE CO., LTD.—The memorandum has been issued of this company, which was registered recently as limited by guarantee (*C. & D.*, October 7, p. 491). The offices are at 19, Tavistock Square, London, W.C.1, and in addition to twenty-four directors, Mr. G. A. Mallinson is secretary and manager. The directors are required to insure with the company against either fire or employers' liability risks and persons, firms or companies who desire admission to membership must be prepared to effect similar insurances. Members are liable to calls not exceeding £1 ls. in any year, when there is a deficit in current expenses, and the liability of each member in case the company is wound up is not to exceed £1 ls. Membership is confined to chemists qualified under the British Pharmacy Acts, and actually in business.

UNITED DRUG CO.—The earnings of the United Drug Company of America for the first eight months of the year are reported to have so far improved on those for the corresponding period of the previous season that the net profit shown is sufficient to cover interest charges and the preferred dividends for the whole of 1922. These charges and dividends are alone equivalent to \$2,500,000. If, therefore, the rate of advance is merely maintained—and the last four months of the year are always the best for the trade—it seems practically certain (says the "Financial Times") that something on the common stock will be forthcoming when the accounts are finally made up. The quarterly dividends at the rate of 8 per cent. per annum were suspended last autumn and have not since been resumed. The amount received by the stockholders for 1921 was 4 per cent., compared with 7½ per cent. for 1920. It is estimated that the total gross earnings will reach the \$60,000,000 level, compared with \$58,000,000 for the preceding year, though there has been a cut in the average price of goods of from 20 to 30 per cent. These results are from trading only and do not include what income may be received from Liggett's International on account of the interest in the Boot Companies in Great Britain.

GERMAN CHEMICAL COMPANIES.—The companies belonging to the aniline group have unanimously agreed that, in view of present conditions created by the depreciation of the mark, a capital increase is required. At the next general meeting to be called immediately the Chemische Fabriken vorm. Weiler-Ter-Meer will propose a capital increase in such a way that the original capital will be increased from M. 33,651,000 to 60 million marks, and the preferential capital from M. 2,325,000 to 4 million marks. The Farbwerke vorm. Meister Lucius and Bruning, at Hoechst, decided to propose at the general meeting, to be held on October 16, an increase of the capital of M. 470,000,000 to M. 940,000,000 by the issue of M. 440,000,000 ordinary shares and 30 million marks preference shares. The Farbenfabriken vorm. Bayer & Co. has decided to propose at the general meeting of October 18 an increase of the ordinary capital by 440 million to 880 million marks, and of the preferential capital by 30 million to 60 million marks.—The Badische Anilin- und Sodafabrik, at Ludwigshaven, proposes the increase of the original capital by 440 million to 880 million marks, and of the preferential capital by 30 million to 60 million marks.—The A.G. Fuer Anilin Fabrikation, at Berlin-Treppow, proposes to double both its original and preferential capital. The shareholders will have the right to take up shares in the proportion of 1 to 1 at 150 per cent. The Chemische Fabrik Griesheim-Elektron, Frankfurt, proposes the increase of the original share capital by 110 million to 220 million marks, and the preferential share capital by 8 million to 16 million marks. The Hoechst Farbwerke A.G. have decided to propose an increase of their original capital from 440 million to 880 million marks, and of their preferential capital from 30 million to 60 million marks.

Festivities

Surgical Instrument Manufacturers Dine

THE annual dinner of the Surgical Instrument Manufacturers' Association, Incorporated, was held at the Royal Adelaide Galleries, Strand, on October 13, Mr. Ernest W. Mayer in the chair. Mr. A. W. Down (chairman from 1917 to 1922), in proposing the toast of the Association, urged the necessity for the encouragement and protection of the surgical-instrument industry. While the safeguarding of the industry against unfair foreign, and particularly German, competition was a matter of importance to both employers and employed, it was a matter of national importance to preserve a trade of such vast service in time of peace, and it positively could not be done without in time of war. (Hear, hear.) Responding to the toast of "The Visitors," Mr. Godfrey Cheesman said that the National Union of Manufacturers were trying to protect the interests of the industry, and he asked those present to help in that task.

Manchester Pharmaceutical Association Dinner

THE annual dinner of the Manchester Pharmaceutical Association was held at the Grand Hotel, Aytoun Street, on October 11. The President (Mr. E. H. Simmons) and Mrs. Simmons received the guests. After an excellent dinner had been served, the President gave the toast of "The King," which was duly honoured. The toast, "The Houses of Parliament," was proposed by Mr. W. Kirby, M.Sc., who dealt with his subject in a few words of a well-chosen character. Councillor J. E. Sutton, M.P., in replying to the toast, remarked that although he was only a comparatively recent member of Parliament (having been elected last year), he would like to say that he had had a large number of years to his credit as a councillor in the city of Manchester, and this was the first pharmaceutical dinner he had ever been at; nevertheless, if they desired any help from him as a member of Parliament, he would give them every help in his power. He referred to the time when Mr. Lloyd George had to deal with the Insurance negotiations, spoke of one or two amusing episodes in the House of Commons, and concluded by saying that the House was one of the best clubs in England, although it had a rather heavy entrance-fee. (Laughter.) Councillor Walter Davies, a prospective candidate for the Hulme Division at the forthcoming general election, proposed the toast of "The Manchester Pharmaceutical Association" in an excellent manner. He referred to his close association, as chairman of the Manchester Insurance Committee, with the pharmacists, and said he had always found they were a sound body of men. He would like them to know that he considered they had the confidence of the people, and they need never be afraid of losing the Insurance work. In 1923, he said, we were to have very serious Insurance administrative matters to consider, and the Friendly Societies and the medical men were in touch with one another. "It behoves you, gentlemen," he said, "to watch every move on the board and stick to that which is yours by right." The President, in replying, said that if there were any black sheep in the fold they should be ruthlessly and rigorously prosecuted. In a neighbouring borough that had been done, and he hoped that wherever it was found it would be as severely dealt with, so that when the time came for their trial of strength they would have their ranks full of the strongest and best, to uplift and enhance their cause. The toast of "The Visitors" was proposed by Mr. F. W. Bates, J.P., in his usual felicitous manner, and was replied to by Mr. L. Moreton Parry, who referred to the great value of the War Auxiliary Benevolent Fund. As Manchester contributed over £1,000 of that money, he said, it was his duty as their visitor and guest to refute the many charges made as to the parsimonious way in which the money had been doled out. Captain Brooks, chief of the appointments department of the Ministry of Labour in Manchester, said that he was glad to have an opportunity of speaking of the good work they had done and were doing in his department to alleviate the intense distress created by unemployment; there were men asking for any sort of a job, men who had even held rank as

lieutenant-colonel. He paid a tribute to Mr. Bates and all his pharmaceutical colleagues, who had been of great service and had generously helped to unravel the tangled mass of unemployed humanity. The toast of "The Ladies" was proposed by Mr. Vallance, and replied to on behalf of the ladies by Mr. J. H. Franklin. During the evening a musical programme was carried out, to which Mr. Bridge Peters, Mr. Granville Shaw, and Mr. Arthur Dixon contributed in a very able manner. The accompanist was Miss D. Franklin. A vote of thanks to the President was moved by Mr. J. H. Nidd and carried with acclamation.

Chemical Industry Dinner

THE annual dinner of the Society of Chemical Industry was held at the Connaught Rooms, Kingsway, London, on October 13, Dr. E. F. Armstrong, F.R.S., President, in the chair. Among the guests were Mr. Roscoe Brunner, the Rev E. C. Pearce, D.D. (Vice-Chancellor, Cambridge University), Mr. Robert Hicks (Master of the Salters Company), Mr. Chas. T. Heycock (Master of the Goldsmiths Company), the Hon. W. Hulme Lever, Sir R. Waley Cohen, Mr. Max Muspratt (chairman of the Association of British Chemical Manufacturers), Dr. H. S. Hele-Shaw (President of the Institution of Mechanical Engineers), Mr. A. Chaston Chapman (President of the Institute of Chemistry), Mr. P. A. Ellis Richards (President of the Society of Public Analysts), Mr. A. Gordon Craig (chairman of the Chemical Industry Club), and Dr. T. M. Legge (Chief Medical Inspector to the Home Office).

Proposing the toast of "The Society of Chemical Industry," Mr. Roscoe Brunner said that although they could have selected a more distinguished person than himself to propose this toast, they could not have chosen a more appropriate one, because his family and business connections with the Society dated from its very commencement. Dr. Ludwig Mond, his father's partner, was chairman of the first meeting which started the Society, and his patron saint, Sir Henry Roscoe, was first President of the Society. Incidentally Henry Roscoe had had something to say about the tonnage of salt which had been decomposed during his first year of office by the Leblanc process, and it was noteworthy that the tonnage of bicarbonate of soda produced in that year was equalled in ten days during the palmiest days of the ammonia soda process. That showed how the world had progressed. He ventured to say that the Society of Chemical Industry had done more to raise the status of the chemist than any other agency since its foundation. He could claim to have been connected with the chemical industry since 1874, and in those days the elder members of the Society would remember that a chemist who had not been educated somewhere on the Continent was not considered worth his salt, but we had progressed very far since then. The scientific education of this country is better than the scientific education of any other country in the world. Oxford now has a very brilliant scientific school, and speaking in the presence of so distinguished a member of the University of Cambridge as its Vice-Chancellor, he ventured to say that Oxford has a reputation as a school of chemistry second to none in the whole world. He hoped that the Society would continue to press for the better standing of the chemist. In his opinion it was improper that the scientific man who had studied chemistry should be classed with the pharmacist, and he hoped that the Society would take such steps as were possible to give the chemist that standing in the world that he possessed in the opinion of those who were qualified to judge him. What steps the Society could take to that end he confessed he did not know.

Dr. H. S. Hele-Shaw (President of the Institution of Mechanical Engineers) supported the toast, and said that he felt quite at home in a gathering of chemists, because of the close relationship between the work of the chemist and the engineer. The objects of the Society of Chemical Industry and the Institution of Mechanical Engineers were identical in their respective industries, and everyone knew how the chemists and engineers had come together and were jointly responsible in aiding and backing up and making a success of the noble efforts of the

fighting line during the war. The Institution had just celebrated its seventy-fifth anniversary and had a membership of 10,000. The Society of Chemical Industry was in its fortieth year and had a membership of about 6,000, a figure which the Institution reached ten years ago. He hoped that in another ten years the Society would have a membership equal to that of the Institution of Mechanical Engineers, and that it would continue to progress.

THE PRESIDENT REPLIES

The President (Dr. E. F. Armstrong), replying to the toast, said that in the old days chemistry was a very formal science; chemists were very formal people, and they used to have very formal dinners and sit at long tables. Now, however, everything had changed. Formality had gone by the board, and ladies now appeared at their functions. If we endeavoured to take a broad view of the present as compared with the past it was instructive to cast our eyes right back to ancient Egypt, to ancient Greece, and to the wonderful Roman Empire, and to reflect in what way we differed from the men and women of those times. Had we progressed in art? He thought the answer was "No." Had we progressed in literature? The answer was "No." Had we progressed in Government, whether State or Imperial? Had we progressed, or were our methods not founded on those of the ancient Empires? Wherefor did we differ in this age? Was it not because of mechanics and mechanical inventions? This was a mechanical age, and all the changes which had taken place, producing greater comfort, let us claim, and producing the world as we now know it, were due to the brains of man evolving mechanical aids for his well-being. The theme that he wished to elaborate for a moment was that whilst we used the term "mechanical" and thought of the mechanical inventions, was it not the chemist who had made these discoveries, and the engineer who had taken the credit? (Laughter.) Ought not it to be asserted at meetings such as this that the engineer was but the handmaid of chemistry and that the engineer was but the kindly gentleman who carried out in the world the ideas which the chemist had wrested in the laboratory? What they wanted to drive home was that the engineer—who he believed originally was a Scotsman—was a very canny man. They had just been told that thirty-five years before the chemists, the engineers got together and formed a society, and the moral chemists had to learn was that the engineers got together and as a consequence of that they obtained the ear of the public and the credit, and well they deserved it, because surely the prize was to the swift. Chemists did not seem to have been swift enough. Take the social services which were so essential for the public. In the case of the water supply of the great City of London, which was the outstanding name? He believed it was the name of Sir Edward Frankland, but who really got the credit for the water supply of the City of London? It was one or other of their friends the engineers. The same thing applied to sewage, and it was the chemist who had made the discoveries which had rendered it possible to live in our large cities, but it was the engineer who had reaped the reward both materially and in the shape of knight-hoods and the like. Chemists seemed to suffer from an excess of modesty, and if they were to reach that standard of excellence in the world and to have that weight in the counsels of the nation they should have and which they had earned, something must be done to put this state of things right. The only advice he could give them that evening was advice based on the words of the President of the Institution of Mechanical Engineers, and that was to keep on getting together. The Society is unique, in that its activities are world-wide. It has sections not only throughout the British Empire, but even firmly planted in the very heart of the United States. Two Presidents had been citizens of the United States, and the point he wished to make was the essential importance both to the welfare of Anglo-Saxon chemistry and also to the welfare of civilisation on this globe, that British and Americans should stand firmly together at the present juncture.

Mr. Edwin Thompson proposed "The Visitors," and the Rev. E. C. Pearce (Vice-Chancellor, Cambridge University) replied.

History of the Photographic Lens

BEFORE The Royal Photographic Society, on October 10, R. S. Clay, D.Sc., in delivering the twenty-fifth annual Traill-Taylor memorial lecture, dealt with the history of photographic lens. After mentioning that the ancients were aware of the magnifying power of glass globes filled with water, and probably of transparent stones, such as quartz, made lens shaped and polished, Dr. Clay briefly alluded to Alhazen and Roger Bacon, who describe the effect of looking through segments of a glass sphere. The first mention of the camera obscura is by Leonardo da Vinci, and Hieronymus Cardano (1550) speaks of the light passing through a glass disc by which he may mean a lens. If so, this would be the first camera with a lens. A Venetian nobleman, Daniel Barbaro (1568), describes a camera, and he also explains that the image can be made clearer by using a diaphragm to cut off the marginal rays; so that Barbaro would appear to be the inventor of both. Johann Kepler (1611), explains the formation of images by lenses. He appears to have known how to use the tele-objective to form a real image. The microscope was probably invented by Jansen in 1590, and the telescope in 1608 by Lippershy. The first person to make an achromatic lens was an Englishman, W. Chester More Hall, in 1723, but he did not publish his discovery. It was John Dolland who exhibited to the Royal Society in 1758 an achromatic prism of crown and flint glass, and explained its construction. He at once applied it to the construction of the telescope. The periscopic lens was invented by W. H. Wollaston in 1812, and his discovery has played an important part in the development of the landscape lens. Among the authors who contributed to the theoretical treatment of the lens in this period are Huygens, Newton, Joseph Harris, Herschel, George Biddel Airy, William Hamilton, and Henry Coddington.

INVENTION OF PHOTOGRAPHY

The evolution of the photographic lens may be dated from the inventions of Daguerre in 1838, and Fox Talbot in 1839. Daguerre was assisted in his optics by Charles L. Chevalier, who made a landscape lens with Wollaston's meniscus form. French landscape lenses were mounted in a cell in front of a large sliding tube until Dallmeyer's lens was introduced in 1864. In 1840 Chevalier brought out a compound portrait lens working at $f/6.7$, of which the power could be varied by altering the separation of the lenses with a rack. In 1839 Professor A. von Ettinghausen, of Vienna, visited Paris, and on his return persuaded Petzval to compute a new lens, which, made by Frederick Voigtländer in 1840, was corrected for spherical aberration over a small angular field. It consisted of a nearly plano-convex cemented achromatic front lens, and a separated back achromatic combination. Petzval also at the same time worked out a so-called orthoscopic landscape lens. It is the portrait lens which is always known as the Petzval lens, and it continued to be made in almost the original form for some seventy years. The original lens worked at $f/6$. Andrew Ross made it in an improved form at $f/4$. Thomas Ross made an interesting lens in 1841. It was a doublet composed of two cemented achromatic lenses. Thomas Davidson, of Edinburgh, made a symmetrical doublet in the same year. Ross at the same time made a symmetrical separated triplet consisting of two almost equiconvex lenses with a strong flint glass lens between them. He also made a triple cemented symmetrical lens similar to the famous Steinheil doublet, introduced later as an aplanatic magnifier. All Ross lenses had coincident visual and actinic foci. (The first French lenses which were corrected for the actinic rays were apparently those of Lerebours in 1846.) Thomas Sutton took out a patent (1858) for a symmetrical separated triplet. Thomas Grubb, in 1857, patented an achromatic meniscus lens, which he claimed to be aplanatic. Two years later Thomas Sutton patented a curious "panoramic" lens, consisting of a thick glass globular shell filled with water. The diaphragm is unique, having several leaves in different

planes intersecting in the vertical axis of the lens. In 1860 also C. C. Harrison and Schnitzer introduced their "globe lens," a periscope lens with a wide field. It consisted of two cemented achromats, of which the inner and outer surfaces formed portions of spheres with a common centre. In 1864 Ross invented his "actinic doublet." It was not symmetrical and was free from flare. It seems strange that up to this time the advantages of the symmetrical lens had not been recognised by anyone.

THE APLANATS

A new chapter in 1866 opened with the aplanatic lenses of Steinheil and Dallmeyer. The former used two flints instead of flint and crown, putting the higher refractive glass outside. He was beginning to recognise the value of symmetry in reducing astigmatism and distortion. Dallmeyer also used two flints. He called his first lens a "wide-angle rectilinear lens." He also modified the Petzval lens by interchanging the back combination; it worked at $f/3$. Traill-Taylor wanted a lens of variable focus, and devised a focus adapter, consisting of a slide carrying four lenses of focal lengths 7, 9, 12 and 15 in., which he inserted between the two lenses of a compound objective. In 1874 Steinheil made a portrait lens of two cemented lenses working at $f/3.5$. It had the inner curvatures nearly equal. In the same year Ross & Co. brought out their portable and rapid symmetrical calculated by F. H. Wenham, thus being the first firm to employ a scientific man as calculator.

THE ANASTIGMATS

The greatest step in the development of the photographic lens was made possible by the new glasses—the barium crowns of the Schott glass factory at Jena. An achromatic lens made of the new barium crown and a flint could be corrected for astigmatism but not spherically. To correct both, all three glasses must be used—old crown, flint, new barium crown. It can then be achromatic, anastigmatic, and aplanatic. By combining two such components into a symmetrical lens, it can also be made orthoscopic and can easily be given a flat field. This is the principle underlying the well-known Goerz lenses. Another way to achieve the result is to use two unlike combinations, one of which is made responsible for correcting the spherical aberration and the other for correcting the astigmatism. This is usually the method adopted by Rudolph in the earlier of the Zeiss lenses, and several of the recent lenses by other makers. Hugo Schroeder and Stuart were the first to take advantage of the new Jena glasses, and in 1888 they patented the "concentric" lens, composed of a flint and a barium crown. In 1890 Rudolph introduced the first of the lenses afterwards known as the "Protar" lenses. It was the first successful attempt to combine spherical correction with a flat astigmatic field. Ross agreed to make these lenses under licence. The next lens was the Unar, patented 1899, followed by the well-known Tessar, of which the patent expired in 1914. When Zeiss had finished their factory at Mill Hill (1911) they gave Ross notice to terminate the licence, and themselves made the Tessar. Schroeder constructed in 1892 a symmetrical cemented triplet, each element consisting of a flint concave lens between two convex crown lenses, one made of the old-type crown of low refractive index and the other of the new baryta glass of high index. Practically at the same time Goerz patented a lens of the same type. Then came the Telecentric lens of which two forms are made. The great feature of this lens is the short back focus, which is only half the equivalent focus. The first lens of this type, i.e., a lens with a short back focus, was that made by Martin, but it was not well corrected and thus of little use. An improved form of the Telecentric, the Tele-Ross, working at $f/5.5$, is just being issued. It has a small back lens, which makes it much lighter and more convenient. When Zeiss took over the making of the Tessar in 1911, Messrs. Ross introduced two important lenses to compete with the Zeiss lenses:—(1) The Combinable Lens, as a reply to the Double Protar; the components worked at $f/11$, as compared with Zeiss' $f/12.5$, and the complete lens at $f/5.5$, as compared with $f/6.3$. This has only been achieved by the use of still

another variety of the new crown glasses known as fluor-crown, which has a low refractive index and dispersion; the back lens in this case being a quadruple-cemented one. The first two surfaces (counting from the diaphragm) are collective, and the third is dispersive. As this lens is fully corrected for colour, spherical aberration, coma, and astigmatism, it can be combined with any other similar lens, hence its name. (2) The Xpres, to compete with the Tessar. This is similar, but has a triple-cemented back lens. When in the war the Air Force found the Ross-Zeiss, of 8½-inch focus, suitable, the lens was re-calculated and the Airo-Xpres lens evolved in November, 1918, working at $f/5.6$. Taylor, Taylor & Hobson also made a variety of the Cooke lens, the "Aviar," for the same purpose. Dallmeyer introduced in 1878 the rectilinear portrait lens, a somewhat similar double combination cemented lens of greater speed, an aperture of $f/3$. In 1895 Mr. H. L. Aldis (Dallmeyer) patented the stigmatic lens. In the next year was issued another, which was very nearly the former lens reversed. The new barium crown glass was used in these lenses to make them anastigmatic. The original patent was taken out by T. R. Dallmeyer for a telephoto in 1891. The lens consisted of a single cemented convergent front lens and a cemented divergent back lens, both achromatic, with a variable separation. Later a well-corrected lens, such as the Series II. lens was used as the front lens and the back lens was constructed of two achromatic divergent lenses. This was afterwards greatly simplified, and in 1899 the well-known Adon lens was introduced. The distance between the components can be varied, and thus a wide range of powers is available. Zeiss made a somewhat similar lens, the Magnar, in 1906. In 1912 Lan Davis brought out the new large Adon, which had a fixed separation and focal length and worked at $f/4.5$ and $f/6$. The back focus was only half the equivalent focus, so that it has the properties of a telephoto. In 1919 L. B. Booth calculated a new and very simple lens for Dallmeyer—the Dallon. In this lens, by the use of special glasses the air space is eliminated, and by the use of two cemented pairs only, an anastigmat lens has been produced with a minimum of the pincushion distortion so usual with telephoto lenses. R. & J. Beck applied the iris diaphragm to photographic lenses as early as 1882. An iris diaphragm was made by Nicephore Niépce, in 1816. Chevalier supplied one which he called a *pupille artificielle* to this variable-focus objective in 1840. It then seems to have remained unknown or to have been forgotten until re-invented by Brown, of Brighton, somewhere about 1860. But even then the iris was only used in connection with the microscope. In 1906 Beck introduced their Isostigmat Universal, and in the following year their Isostigmat portrait lens. These lenses do not obey the Petzval condition—that the sum of the powers of the lenses, divided by their refraction index, should be zero. The Isostigmat is of interest, as it covers a field of 85 to 90 degrees at $f/16$, the first wide angle with such an aperture. Another of their lenses, the Neostigmat, is somewhat similar in type to the Cooke lens, but optically it is quite different in the ratios of the foci of the elements. In this case also the Petzval condition is not fulfilled, and yet it is an anastigmatic lens. The series working at $f/8$ does not use the barium crowns, and a similar lens could have been made, so far as the glass is concerned, in 1840.

THE COOKE LENS

The introduction of this lens has formed the starting point for a new method of lens construction. The patents for the Cooke lenses were taken out in 1893, 1895, and 1898. The designer, W. H. Dennis Taylor, was, and is, working for Cooke, of York (hence the name of the lens). It was actually made and put on the market by Taylor, Taylor & Hobson. During the war a special Aviar lens was evolved. It is a split-divergent lens, which was a conception of the inventor, but never developed by him to give results comparable with the triplet. The exploitation of the idea was left to Warmisham. The Zeiss Unar and Tessar were based on the same principles as the Cooke lens, and there is little doubt Rudolph was led to their design by consideration of the Cooke. Harting has also made several lenses, which are modified Cooke's.

The Irish Preliminary Examination

WE have received the following statement of the views of the Northern members of the committee which considered the question of substituting a matriculation examination for the present Preliminary examination of the Pharmaceutical Society of Ireland:

(1) The absolute need above everything else for improving preliminary education, as on this depended all the future training of the pharmacist, and

(2) That the entire course of training, both preliminary, professional, and possibly University, should be considered at the same time, so that there might be no over-lapping and, more essential still, no hiatus so that the would-be pharmacist would have a clear run through to the University training if he so desired.

DIGEST OF EVIDENCE

A large amount of evidence was submitted to the Committee, of which the following is a digest:

It is generally admitted by chemists and all who come in contact with the students, or have any knowledge of the examinations that the present standard is too low.

Dr. Harrett Murphy says: "Should be raised in all subjects to at least junior grade intermediate," and gives suggestions for improvements in examinations in subjects already examined, and by addition of other subjects, e.g., experimental science.

Professor Wren writes: "Great advantage would ensue if pharmaceutical students were better trained in English and elementary mathematics," granted a higher standard of preliminary attainment. The course for the final could be improved out of knowledge.

Besides being of such a low standard—and partly because of it—the Preliminary examination is not recognised by any other body, and leads nowhere.

The Pharmaceutical Society of Great Britain had done away with preliminary examinations, and proposes to raise the standard of accepted examinations to matriculation standard.

Any special subjects which are necessary under the Pharmacy Acts could be included with final examinations so as fully to comply with the law. The examiners' fees would be saved, and the registration fee for students would be a net income to the Society.

In the three years 1919-21 only 40 per cent. of the registered students sat for the Pharmaceutical Preliminary, 594 students being registered, of whom 348 entered by examinations other than the Preliminary. In the three years mentioned above, while 594 students registered, only 165 were able to pass the Licence examination, showing the result of attempting to build on a bad foundation.

The advantages of a matriculation examination are:—

(a) The standard and arrangements of the examination have been arrived at after years of study and consideration of all issues involved by the highest educational experts in the Empire, and the examination thus carries all the weight of this unimpeachable authority.

(b) Professor Small, of Queen's University (himself a Ph.C. of Great Britain), says regarding the institution of the matriculation for the Preliminary: "Would raise the standard of general education (at present the majority of pharmacy learners have the education of an average errand boy. A lamentably small proportion have reached the standard from which the studies for the qualifying examination can be started with any hope of success), would broaden their outlook, increase their enjoyment, and certainly increase their efficiency both as pharmacists and citizens."

The status of pharmacy is upheld not only by those in actual practice as pharmacists, but also by the many who, having trained and qualified in pharmacy, find scope for their particular talents in allied or related walks of life. To both classes a preliminary examination, which is at the same time a matriculation or its equivalent, can, without doubt, prove a great help and a direct incentive to proceed further to the higher education available in the University itself or in its affiliated technical colleges. Pharmacy, both as a trade and a profession, would benefit greatly by attracting to the ranks of its learners and apprentices, youths, who have passed the matriculation and were capable of going on through the qualifying examinations to University degrees, because such youths would be keener and more efficient than the mere hewers of wood and drawers of water who at present form the majority of future pharmacists. The benefits to pharmacy learners, as individuals of having passed the matriculation, are innumerable. If

they go no further they have at least a sounder knowledge of general education than is necessary for the present Preliminary. If they proceed to the B.Sc. in chemistry and its allied subjects, all the various openings in applied chemistry, as public or private analysts, as works' chemists, as technical or academic teachers, etc., etc., become possible careers for the ambitious, hard-working pharmacists who possess a great advantage over the ordinary University student, in that they have been trained to use their hands as well as their heads in the careful manipulation of apparatus and of minute quantities of materials. If they proceed to a similar degree in biology, all the various openings, especially abroad, as agricultural chemists and botanists, as mycologists and entomologists, etc., likewise become possible."

Dr. Small's remarks are borne out by your own examiners.

(c) Mr. C. A. Abraham, B.A., secretary of the Belfast Higher Grade Committee, writes: "I have no hesitation in saying that the matriculation course of Queen's University would raise the outlook and standing of those concerned. The very fact of beginning at the University would lead many on to further studies there, and the examination would be looked upon as the beginning of a course of study rather than an end in itself. The getting into touch thus early with a University has an influence that engenders the desire for further intercourse, and at the same time it tends to preventing that narrow outlook which must necessarily be developed by a system of examination which has for its aim the turning out only of chemists and druggists. Connect your future chemists with a live University and you do not take from their usefulness as chemists, but you add enormously to their value."

The working together of students of the various medical, scientific, or semi-scientific trades or professions would make for better feeling.

Birmingham School of Pharmacy

THE inaugural meeting of the Birmingham School of Pharmacy took place at the Technical School, Suffolk Street, on October 11. In the absence of Councillor Wright, the chair was occupied by Mr. J. W. Atkinson (President of the Birmingham Pharmaceutical Association), who was supported by Messrs. F. Smith, A. W. Gerrard, E. W. Mann, H. O. Lloyd, H. Berry, and Captain E. C. Bennison, and others. Dr. Sumpner presented the school report. Of 149 ex-Service men who had completed the course, 102 had been successful in the examination. Eighteen of the forty-four who presented themselves for the July examination had qualified. The school was full for the sessional course, and, as only two Major students applied, this class had been temporarily dropped. The Staffordshire Pharmaceutical Association had presented two prizes, each of the value of 15s., for competition among the students. Mr. Edmund White, B.Sc., Ph.C., member of the Pharmaceutical Society's Council, delivered an address on the "Historical Side of Education." After reviewing the controversies of the past forty years, Mr. White outlined some of the proposed changes in pharmaceutical education. The Council, he said, is drafting a scheme which will be submitted to local associations for discussion, and then opinions will be invited and considered. One proposal is to take out from Part I. all matters relating to pharmacy, so that the modern technical schools can supply the necessary chemistry, physics and botany and make it a pure science preliminary examination, to be followed by a written examination held locally and a day's practical work in London. Part II. might be partly written and partly oral, to be followed by a day's practical work as at present. The teachers are also to be consulted. As for the Major, it is suggested that as the middle man between patient and physician, he should relieve the latter of some of his work and give him more time for essentials. Among other speakers were Messrs. Atkinson, Gerrard, and Marshall. The prizes were awarded as follows: Silver medal, with books to the value of £5, given by the Association, Mr. S. S. Howard; bronze medal, with books to the value of £2 10s., Mr. W. H. Stephens. The Staffordshire Association prizes were won by Mrs. Blackmore and Mr. Bell. A vote of thanks was passed to Mr. White.

Chemists' Windows

Suggestions from America

"THE Man from London," writing from New York, states: Never, probably, in the history of business has it been so necessary to make the most of every opportunity and device to attract people into the store for the purpose of buying the goods we deal in. As silent salesmen the windows of the drug store are of the greatest importance, and should be made the most of, as they are ready and at hand for use in a number of ways to advertise our goods and bring business into the store all day long. The pharmacist can, and should, make his windows speak for him every minute of both day and night, and tell a different story at least once a week in a bright, up-to-date, business way. He may stamp his personality in certain colours, and his business ability can be reflected so all the world may see and judge. He can tell the whole story in a nutshell, and in a quiet, dignified and convincing manner all his own, which makes for the uplift and general material benefit of his business. The following are suggestions which may be found useful

IN THE WINTER MONTHS

to attract attention to seasonable items through the eyes of the store, and the ready-made advertising space included in the rent:

FREE SAMPLE
OF SIXTEEN DOSES
IF YOU GUESS
THE NUMBER
OF TEASPOONFULS
IN
THIS BOTTLE
OF

WILD CHERRY COUGH BALSAM.
JONES, PHARMACIST.

Fill up a five-gallon bottle with coloured water to represent the proprietary preparation and place it in the centre of your window. Put one of your cough-balsam labels exactly in the centre of the bottle and have the above notice in large letters directly over it. Dress the window with plenty of dummies of your preparation in such a way that the five-gallon bottle stands out prominently. A few well-printed red and black ink on white signs like the following are suggested:

YOUR COUGH MAY
MEAN
SERIOUS TROUBLE.
STOP IT
WITH
WILD CHERRY COUGH
BALSAM.
JONES, PHARMACIST.

WE WILL REFUND
YOUR MONEY IF
WILD CHERRY COUGH
BALSAM
FAILS TO STOP
THAT HACKING
COUGH.
JONES, PHARMACIST.

WE KNOW WHAT
WILD CHERRY COUGH
BALSAM
WILL DO FOR A
COUGH.
WHEN WE RECOM-
MEND ANYTHING
IT IS GOOD.
JONES, PHARMACIST.

WE ARE SURE THAT
WILD CHERRY COUGH
BALSAM
WILL STOP
THAT COUGH OF
YOURS.
BUY IT AND
TRY IT.
JONES, PHARMACIST.

There is a fertile field in window-displays and a grand opportunity to exercise one's ingenuity and taste in designing and decorating so that an attractive and harmonious effect is produced. Some displays, of course, are more successful than others, and these should be made a note of and repeated at the same time of the year. In this way, if the windows are dressed once a week as they should be, in the course of time a number of good paying displays can be made in each season throughout the whole twelve months. Mixed goods in a window-display are not so successful as large quantities of one particular line, but I have known a "one price" for a mixed assortment of articles pay very well for a week now and then—say, two or three times a year. These

"one price" for anything displays are very useful in turning dead stock into cash, and help along a quick turnover, which is very important in these days of keen competition. Three or four large "one price" show-cards and a systematic arrangement is all that is required for a display of this kind.

A Sponge Window

In the recent shopping-week window-dressing competition at Ashford (Kent), the first prize in the class for chemists, perfumers, etc., was awarded to Boots, Ltd., 60 High Street, and the second prize in the novelty class to Walker & Kirkness, chemists, Bank Street: the latter window, arranged by Mr. Robert Kirkness, chemist and



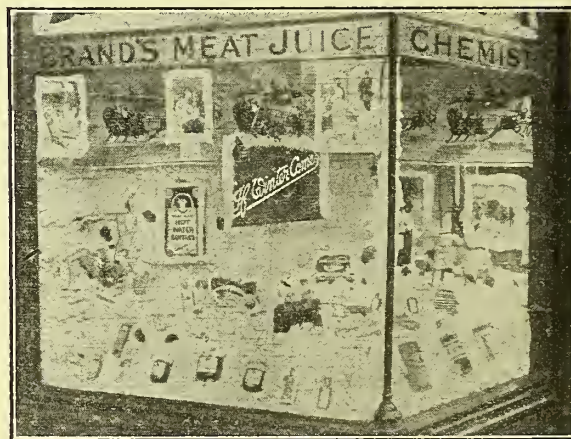
[Photo]

[De'Ath & Condon

druggist, was chiefly concerned with sponge fishing by the diving method. As our illustration indicates, this was an effective display. The realistic seaweed was made from brown shavings out of chocolate boxes, while a sea-water effect was produced by tinting a portion of the shop window with diluted green hat varnish.

"If Winter Comes"

Mr. W. H. R. STEELE, Goodall's Pharmacy, 273 Fulham Road, London, S.W. 10, has recently carried out the topical window-show illustrated here. It has created a sensation locally, and is a happy example of hitting the



public taste by applying the popular Hutchinson's novel "If Winter Comes" to goods sold by chemists for winter trade. The upper part of the window (not shown in the picture) was utilised for a display of Thermogene, the edges of the packages being outlined with cottonwool to give the effect of snow.

Personalities

MR. D. R. ROWLANDS, chemist and druggist, Birkenhead, has been appointed an acting justice under the Lunacy Act.

A PORTFOLIO of sketches by members of the Nottingham Society of Artists is being prepared for presentation to Sir Jesse Boot, Bt., who has cancelled a loan of £100.

MR. W. E. HOOSON, chemist and druggist, youngest son of Mr. T. E. Hooson (T. Esmor Hooson, Ltd., chemists), Llandudno, has passed the final examination for registration as a dentist.

At a meeting of members of the grand council of the Federation of British Industries, on October 18, Sir Eric Geddes was nominated as President for the coming year, in succession to Colonel O. C. Armstrong.

MR. ARTHUR S. BUTLER, C.C., governing director of Butlers (London), Ltd., is leaving by the R.M.S. "Osterley" on October 28 for a lengthy visit to Australia and New Zealand to visit the company's branches and associated houses in Australasia.

MR. CHARLES COMINS, F.C.A., Wilby Hall, Suffolk, chairman of W. Sutton & Co., Druggists' Sundries (London), Ltd., Chiswell Street, E.C.1, has been appointed to the commission of the peace for the county of Suffolk. Mr. Comins is also the principal of Charles Comins & Co., chartered accountants, 50 Cannon Street, E.C.4.

MR. PHILIP F. ROWSELL, F.C.S., Nutbrook, Exmouth, who has again been nominated as Mayor of Exeter, has marked his present year of office by the apparently inexhaustible energy and the broadmindedness that he has displayed. Mr. Rowsell holds, as is well known, many important offices in pharmacy. He became a prospective candidate for old Bridgwater division prior to the last general election, but did not offer himself for the newly-constituted division. It is one of his ambitions to see the scheme for providing Exeter with a public hall and new municipal buildings well in hand before relinquishing the mayoralty.

THE relief fund organised by the Mayor of Whitehaven (Alderman W. H. Wandless, chemist and druggist) on behalf of the dependants of the men killed in the recent mining disaster at Haig Pit has reached the sum of approximately £5,000. The Mayor and other prominent townsmen were present at a memorial service held recently in Whitehaven Congregational Church, when the Bishop of Carlisle was the preacher. A brief account of Alderman Wandless's career appeared in *THE CHEMIST AND DRUGGIST*, II., 1921, p. 658. His services to the community have resulted in an invitation to remain in office for a second year.



MR. W. H. WANDLESS

IN view of the interest taken in what is comprehensively referred to as "wireless," we are pleased to learn that at least one enterprise in this sphere is being conducted by a pharmacist. Mr. M. E. Swan, chemist and druggist, managing partner of The City Wireless and Electrical Depot, 17 Hatton Garden, London, E.C.1, served his apprenticeship at a pharmacy in West Central London, and was subsequently with George Whelpton & Son, managing their advertising department. He was then in retail business (as Johnson & Swan) at Leytonstone and Slough. For many years Mr. Swan was on the council of the Birkbeck College, thus keeping in touch with the science subjects to which he has always been devoted. He is well known in Metropolitan Freemasonry, being a Past Master of the Ethical Lodge, No. 753, and holding office in other lodges in addition.

Births

JAMIESON.—At "Sherwood," Chetwynd Road, Birkenhead, on October 13, the wife of William R. Jamieson (Ayrton, Saunders & Co., Ltd.), of a son.

MARNS.—At St. Faith's, Mount Park Road, Ealing, on October 16, the wife of Thomas Marns, chemist and druggist, of a daughter.

TEALE.—At 19 Hessle Terrace, Headingley, Leeds, on October 13, the wife of Wilfred Willson Teale, chemist and druggist (works manager, Goodall, Backhouse & Co.), of a daughter.

THOMPSON.—At 45 Ivor Road, Sparkhill, Birmingham, on October 10, the wife of C. Vernon Thompson, chemist and druggist, of a son.

Marriage

PORTER — DAVISON. — At Bailiesmills Presbyterian Church, on October 4, by the Rev. W. Warnock, M.A., Samuel Porter, L.P.S.I., third son of Mr. F. Porter, Wilmount, Saintfield, to Rhoda, younger daughter of Mr. D. A. Davison, Edentrillick, Hillsborough, co. Down.

Deaths

BARTLETT.—At Seaton, Devonshire, recently, Mr. Henry Nicholas Bartlett, retired chemist and druggist, aged a hundred and three.

GRANT.—At 40, High Street, Blairgowrie, on October 16, Mr. William Grant, retired chemist and druggist. Mr. Grant was a native of Leuchars, where his father was schoolmaster. He carried on business in Blairgowrie from 1859 to 1903, when the business was taken over by Mr. Charles Clark. He was predeceased by his wife and his family of three sons and two daughters.

JACKSON.—At 18 Brunswick Gardens, London, W. 8, on October 17, his Honour Frank Stather Jackson, Judge of the Mayor's and City of London Court, aged sixty-nine. Judge Jackson was appointed assistant judge of the Mayor's Court in London in 1900, and became judge last year on the merging of that Court with the City of London Court. He was well known to the commercial interests of the City, and was esteemed, as the Recorder said in a finely-phrased tribute on hearing the news, for his learning, his courtesy, his devotion to duty, and his patience.

LEADBETTER.—At Balnacraig, Station Road, Lochgelly, on October 9, David Renton, eldest son of Mr. David A. B. Leadbetter, chemist and druggist, aged sixteen.

STEWART.—The death is announced from Ottawa, Canada, of the Hon. John A. Stewart, K.C., LL.B., M.P., President of H. K. Wampole & Co., manufacturing chemists, Perth, Ontario. Mr. Stewart had been Minister of Railways and Canals in a recent administration.

TURNER.—Recently, Mr. James R. J. Turner, secretary and a director of the United Drug Co., Ltd., aged forty-three. Mr. Turner joined the Rexall staff at Liverpool in 1912. He had an illness in 1915, from the effects of which he never entirely recovered; and shortly after going to reside at Nottingham this year he again fell ill. Mr. Turner was keenly interested in the United Drug Co., and his work was painstaking to a degree. He leaves a widow.

Wills

MR. EDWIN JAMES ALLEN, 20 Middle Road, Bournemouth West, representative of the British Drug Houses, Ltd., who died on September 3, left estate valued at £631 14s. 5d.

MR. MARK JACOBS, 450 Camden Road, London, N., who died on August 12, senior ledger clerk at the chief offices of Burroughs Wellcome & Co., Snow Hill, London, E.C., left estate of the gross value of £1,409 7s., with net personalty £625 19s. 2d.

Trade Notes

NORWEGIAN COD LIVER OIL.—Johan Didrichsen, Kristiana, Norway, advertises the Vitaminax brand cod-liver oil.

DE LUZY COMPETITION RESULTS.—The awards in the De Luzy trade competitions were given in an advertisement in our last issue.

ATTACHÉ CASES.—A special offer to chemists of attaché cases is made by The Leather Goods Manufacturing Co., 41 Oldfield Road, Salford, Manchester.

"GREEN BOOK OF PROPHECIES, 1923."—C. E. Fulford, Ltd., Leeds, offer supplies of this book with counter bills advertising a Zam-buk competition for the public.

"CHESTNUTS."—Arthur H. Cox & Co., Ltd., Brighton, make a special offer, available until November 1, of advertising material for "Chestnuts" chest and lung tablets.

GEE'S LOBELLINE.—Squire & Co., Birmingham, Ltd., Stirchley Laboratories, Birmingham, proprietors of Gee's Lobelline, ask chemists to write for wholesale terms of this speciality.

BOTTLE CAPPING SOLUTION.—The Unit Manufacturing Co., 171A Landells Road, East Dulwich, Surrey, offer "Liquid Kid" bottle-capping solution. It is intended to replace white kid capping.

SCISSORS.—Stander & Perks, Great Lister Street, Birmingham, give prices of a selection of the nail and other scissors they manufacture. A complete manicure set at reasonable price is also shown.

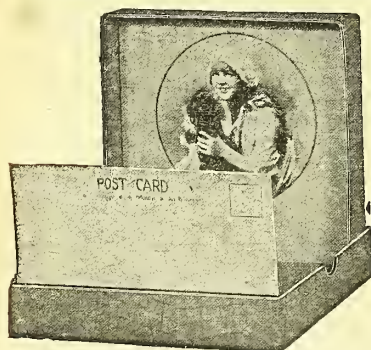
MEGGESON & CO., LTD., are sending out a new show-card for their iodized throat lozenges, which has the George and dragon trade-mark in red and the label on the tablets in green. It is a high-class production.

EVANS SONS LESCHER & WEBB, LTD., announce that they are concentrating their export trade in Liverpool, to give increased facilities in despatch from their factories, and to enable further development of their London home trade.

ELECTRIC POCKET LAMPS.—Archibald J. Wright, Ltd., manufacturing electricians, 395 City Road, London, E.C.1, have issued an abbreviated list (Section "Y") dealing with new lines in electric pocket lamps, torches and refills. A substantial trade discount is allowed off the list.

HOOKE'S MALTED MILK.—A beautifully-produced illustrated book reaches us from United Dairies, Ltd., which deals with the various activities of the company. One section deals with Thew, Hooker & Gilbey, Ltd., which manufactures Hooker's malted milk. Illustrations in colours of the show-cards are given, and also selections of the advertisements in the Press.

REFLECTOSCOPE.—Houghtons, Ltd., Ensign House, 88-



89 High - Holborn, London, W.C. 1, have introduced an interesting novelty called the reflectoscope, as shown in the illustration. It is a method of viewing photographs or picture postcards, the mirror being concave and giving an enlarged view of the object placed within its focus. The two sizes of the reflectoscope sell at 2s. 6d. and 1s. 6d.

THE EXTRA PHARMACOPEIA.—An advertisement in this issue announces that Volume I. (seventeenth edition) of Martindale and Westcott's "Extra Pharmacopœia" has been reprinted, and that the price has been reduced to 25s. We have examined a copy of the reprint, and can confirm the statements regarding the distinctive features of the reprint as given in the advertisement, viz.,

improvement in the paper, which has reduced the thickness of the book; addition of a complete index to both volumes, and reduction in price. It is the most up-to-date and complete reference book there is for medical men and chemists.

PIVER'S PERFUMERY.—We have had an opportunity of examining the new series of Floral perfumes advertised by the firm of L. T. Piver, Paris, in a recent issue. It goes without saying that any perfume for which this well-known house makes itself responsible is of unimpeachable quality; and it only remains to be added that the format of the new series is highly attractive. The bottles (stoppered ovals, boxed, holding 1 oz. each) are elegantly plain, and the artistic label in each case is of modest size, enabling the contents of the bottle to be clearly seen. A dainty show-card exhibiting the labels of the whole of the series is sent out to retailers, and the margin of profit is, as usual, a liberal one.

Business Changes

BRAYS, LTD., chemists, Portsmouth, are opening a branch at 231 Fawcett Road, Southsea.

MR. F. F. GLANVILLE, chemist and druggist, is opening a pharmacy at 116 Haslemere Road, Southsea.

MR. P. G. DALES, chemist and druggist, Stairfoot, has opened a business in High Street, Grimethorpe.

MR. T. J. LEVENE, chemist and druggist, is shortly opening a business at 70 Crownfield Road, Leytonstone Road, London, E.

MR. C. T. STUTTARD, chemist and druggist, has acquired the business of Mr. H. Crompton, chemist and druggist, 16 Parkhills Road, Bury. [Corrected note.]

MR. P. H. LAMBERT, chemist and druggist, has taken over the business of F. S. Hankinson's Pharmacy, Ltd., chemists, 62 Brockley Rise, London, S.E.23.

MR. FRANK ROGERS, chemist and druggist, late of Reigate and Bury St. Edmunds, has acquired the business of Mr. T. Read, 4 Victoria Terrace, Hove, as from October 14.

BOYD, WILSON & CO., LTD., 18 Southwark Street, London, S.E. 1, are sole agents for Areco, Ltd., perfumers, whose Christmas lines are now being advertised in the Press.

MR. W. EVERARD WHITE, chemist and druggist, 7 Market Street, Gainsborough, has taken his son, Mr. Richard Pycroft White, chemist and druggist, into partnership, as from October 1. Mr. R. P. White passed the Qualifying examination in September, 1914, and joined the forces a month later.

Information Department

INFORMATION WANTED

Postal or telephone information with respect to makers or first-hand suppliers of the undermentioned articles will be appreciated:

A/1110. "Bell" brand Plaster of Paris	P/1810. Dr. Truby King's Emulsion
G/510. Bishop's Cholera Box	E/1810. "Golden Drops"
C/42. British makers of suppository machines (not moulds)	F/1310. Hooper's Pills, "Red Seal" brand
M/1810. Cornfield's (or Carnfield's) Chemical Calculator	G/1810. "Metalline" capping for bottles
H/1310. "Delphine" feeding cups	B/1010. Reid Bros.' hospital furniture
	B/1810. "Silko"
	C/1710. Stevens' Blister

INFORMATION SUPPLIED

Inquiries regarding the following articles have been answered. The information as to supply will be given to others who send a stamped, addressed envelope to the Information Department, THE CHEMIST AND DRUGGIST, 42 Cannon Street, London, E.C. 4.

Anesthone Cream. A/1110	"Luatol." S/1710
Butyn. S/1710	Marcel waving irons. F/1610
"Dorsella" milk foods. B/1710	Pharos sheep dips. M/1310
Eucresone Fluid. M/1310	Ratinal. R/1410
Hartmann's sanitary preparations. S/1710	Radiol. B/1010
"Holdfast" Soothers. L/1710	Russian Perfumery. N/1310
Iso-propyl-Alcohol. S/1310	"Synlac" synthetic shellac. C/1610
Kresol. M/1310	Vange Water. C/1110
Liquid bottle capping. Y/1610	

Observations and Reflections

By Xrayser II.

The Practice of Pharmacy

in Ireland, regarded from this side of St. George's Channel, appears to be curiously complicated, and it is necessary to an understanding of the proceedings of the annual meeting of the Irish Society, reported last week, that we should remind ourselves of the different respective positions and functions of the four classes of practitioners on the Registers of the Society. Briefly, it is sufficient to remember that pharmaceutical chemists possess the full qualification entitling them to dispense medical prescriptions—which until the passing of the Act of 1875 was the exclusive privilege of apothecaries and medical practitioners; that pharmaceutical assistants (created by the Act of 1890) can carry on the business in the temporary absence of their employers; that registered druggists, though they can under the same Act of 1890 sell poisons, cannot legally dispense medical prescriptions; and that chemists and druggists are a vanishing quantity, being merely survivors of those who were in business before the passing of the Act of 1875. The change now contemplated, which was the principal topic discussed at the meeting referred to, is, as I understand it, the abolition of the third of these classes, the registered druggists, by doing away with their special examination and the admission of those who at present hold this position to the rank of pharmaceutical chemists, on condition of their passing a modified examination for that purpose. The proposal will, I should say, have the sympathy of most British pharmacists. A good deal of misunderstanding and confusion must result from the present state of things, and it is at least curious that on the crucial point which with us distinguishes between the registered chemist and the unqualified storekeeper—the sale of poisons—there is in Ireland no difference between the pharmaceutical chemist and the registered druggist. If they are already equal in that respect, which the wisdom of our legislators appears to consider as the only one that matters, the difference in other respects would, *prima facie*, appear to be unimportant. But unreasonable as, from this point of view, the present Irish arrangement appears, it is reason itself compared with

Our Own Merely Nominal

distinction between pharmaceutical chemists and chemists and druggists, especially now that the latter are allowed a title virtually synonymous with "pharmaceutical chemist"; and I hope that the movement for fusion in Ireland will lead to a corresponding movement here. The first step necessary to the putting of our craft on a proper, logical basis is the extension of the title of pharmaceutical chemist to all legally qualified practitioners in pharmacy. It would sweep away at a blow all the absurd confusions to which we are now liable; it would mark the complete fusion of that hybrid growth (I hope my metaphors are not getting mixed!) the chemist and druggist into one integrate whole, and would put our title beyond challenge or cavil from any quarter. I am not advocating the abolition of all distinctions, but only of such as carry no real advantage with them. Those of us who desire a higher qualification than is necessary for our ordinary business would still have it open to them to take any degree in pharmacy which the Society or any outside body might devise for them. The difference would be that their new distinction would be a real one, not a Barmecide's feast of empty words. The

Publicity

which even our leaders on the Council are beginning to see is desirable would be greatly promoted by the change I advocate, for the present division of the craft into two grades, to the lower of which the great majority belong, though it may not come exactly under the category of "invidious distinctions" to which the Scottish divinity student who was asked to name the minor prophets objected, does not make for strength either in propaganda work or in anything else. We should present a much stronger front to the world if all chemists in

business had, *qua* chemists in business, the same standing. I may be told that the public do not appreciate the difference between pharmaceutical chemist and chemist and druggist. There is some truth in that, but it is not entirely true, and they who say so show a curious inconsistency in flaunting the title, "Member of the Pharmaceutical Society." As regards publicity, I agree with the official view that anything like blatant advertising is to be deprecated, but commonplaces about "permeation by personal example" leave me cold. Personal example is a personal matter altogether, but the standing of the craft as a whole is the Society's concern, and it ought to do all it legitimately can to advance it.

The Prevention of Medical Men

from writing prescriptions containing "dangerous" drugs for their own taking is not entirely futile, because (1) a good many medical men do not dispense at all, and would therefore have a difficulty in procuring such drugs, "so far as is necessary for the practice of their profession"; and (2) because those who do dispense usually do it by means of an employee, and would be shy about letting him (or her) into the secret of their addiction to the habit. It would be difficult to keep it secret, as I happen to know from working side by side with a secret drug-taker, and the new Regulation will, I do not doubt, prevent a good deal, though not all, self-medication of this vicious kind by doctors. Medical men may, not unnaturally, resent it as a slur upon their profession; chemists should welcome it as relieving them of responsibility in regard to a difficult and sometimes painful matter.

The Compulsory Half-Holiday

seems to be causing a good deal of agitation in certain quarters, and my attention has been specially called to what almost amounts to a demand for its abolition by certain tradesmen in Liverpool. One aspect of the question is forcibly put by a firm of tailors: "That half-holiday makes a big difference. We are paying rates for seven days, but are allowed to work only 5½." The statement is made that even assistants in this business would be willing to lose their half-holiday in order to prevent the dismissals and wage-reductions necessitated by the loss of trade caused by the Saturday or Wednesday closing. To this it has been replied that assistants need not lose their half-holiday if shops were kept open for the whole of the week, since they might take it in rotation, but this obviously applies only to shops in which there are a number of assistants, and it seems to have been forgotten that the holiday was made compulsory for the benefit of the single-handed shopkeepers. I daresay a good many of these would willingly forego the holiday if by so doing they could improve trade, but that is the crux of the whole matter. Would they, and, if they would, ought they? In any case they would be at a disadvantage in comparison with larger firms, and the question is whether the general gain (supposing there were one) should be purchased at their expense. I fancy the general opinion of most pharmacists will be that things should be left as they are.

Chemists' Windows

appear to be mistaken by the owners of many proprietaries for advertising stations. We are being deluged by posters of all sorts and sizes, some of them ready gummed for affixing to our windows, others offering the pleasing alternative of exposure in "a prominent position in your establishment," setting forth the virtues of fantastically named remedies, many of which I, for one, never heard of before, and have no particular desire to hear of again. I am sorry to say, too, that many well-established preparations are being "boosted" in the same way, in some cases with the addition of an announcement of a competition of some kind with valuable prizes attached, the conditions of which intending competitors expect us to explain. Of course, it is all done in the interest of the retailer, who is presumed to have nothing better to do, or to be incapable of doing anything better, than to sell things for other people at any rate of profit they may be good enough to allow him. Some of us, however, it is fair to state, do not see the thing in this light,

With Only One Writing **The McCASKEY SYSTEM** The End of Drudgery

FIRST AND STILL THE BEST

INCREASES YOUR PROFITS

THE McCASKEY REGISTER CO., WATFORD

TOMLINSON'S DAIRY HELPS.
BUTTER POWDER, COLOUR, RENNET, ETC.
LUDDINGTON'S Oils and Animal Medicines.
STOCKED BY WHOLESALERS.
Write for Advertising and Display Terms.
TOMLINSON & HAYWARD, Ltd., Lincoln.
Established 1842. Please address in full.

**M. NAEF & Cie (late CHUIT, NAEF & Cie),
GENEVA.**

HAVE MANY SPECIALITIES IN
SYNTHETIC PERFUMES
OF EXCEPTIONAL QUALITY

SOLE AGENTS:

P. SAMUELSON & CO., 27 Mincing Lane, London, E.C.3
WHO ARE ALSO DIRECT IMPORTERS OF
MUSK, CIVET, and all ESSENTIAL OILS.

Telegrams: "Moschus, Fen, London."

Telephone: Minorities 1660.

"SANITAS" EMBROCACTION

**SHOULD BE STOCKED
BY ALL CHEMISTS.**

An announcement of particular interest to you appears in this issue on page 8

HARPIC

REGISTERED TRADE MARK

is asked for where the exhibition of our showcard assures your customer that she is not going to have to explain its use to an assistant who knows nothing about it. The showcard or the tins are the only guide your customer has that you stock this extra profit-making product.

Send a postcard for particulars of our special offers to
Dept 10 C.K., HARPIC MFG. CO., 1 Avenue Rd., London, S.E.5.

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AND

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The Linseed Oil Position

FOLLOWING on the depression in linseed oil, which was acute late in August and in the earlier part of September (the circumstances of which were dealt with in our editorial columns of September 8), there was about mid-September a fairly substantial recovery in the price. This recovery reached quite £5 per ton for spot delivery at this end up to about £39 10s. per ton being quoted,

so that about half the loss which took place from fully £45 realised at the end of July down to about £34 a month later, was made good. There has certainly been more life in the general demand, and the home output being undoubtedly less than it was a year or so ago, owing to the greatly reduced imports of linseed (as indicated by the tabulated figures of shipments given later), it is not surprising that there has been a recrudescence of scarcity of spot oil, the premium on which has again widened considerably. This scarcity, combined with stronger technical conditions incidental to considerable repurchases against short speculative contracts within the last few weeks, was a contributory factor to the rallying movement. Crushers seem to have adopted a more reserved policy for the present, while the fact has to be noted that operations on Continental account are being again conducted on a liberal scale, and that a certain amount of Dutch competition has asserted itself on this side lately. Within the past year the two extreme points recorded in London for spot oil were £41 and £22 per ton, and, as will be seen from the record of prices given below, the range of values since the end of July this year has been maintained at very considerably above the figure of £28 10s. current at the close of 1921.

Spot prices per ton	1921	1922			
	Dec. 31	Aug. 1	Sept. 1	Oct. 14	
Argentine					
linseed ..	£ s. d.	£ s. d.	£ s. d.	£ s. d.	
Calcutta do ..	17 0 0	20 0 0	17 0 0	18 15 0	
Linseed-oil ..	18 0 0	21 0 0	18 10 0	20 0 0	
Linseed cake ..	28 10 0	45 0 0	34 10 0	39 0 0	
	14 0 0	14 0 0	14 0 0	13 7 6	

The aspect of the seed market has been considerably modified by the materially reduced shipments from the River Plate, and this looks like having a considerable bearing on market conditions over the balance of the year, as both the seed and the oil product threaten to remain in short supply until the New Year is entered upon. The quantities of seed afloat to this country from the River Plate and India combined, indeed, have fallen to ridiculously low proportions, the total being only about 10,000 tons, which, together with 68,000 tons going to Continental ports, makes an aggregate of 77,000 tons, or but little more than one-half the fair average recorded at this period last year. The home make of oil will thus be kept down at much below the normal, inasmuch as crushers seem reluctant buyers at what they consider to be unduly inflated prices at close on £19 per ton on the spot; while the weakness which has gradually developed in new crop Plate seed, which was secured for forward shipment down to £15 15s., has aroused a cautious feeling. Another restraining factor, having regard to the attitude of crushers, is that the outlet for linseed cake has continued generally poor even at appreciably reduced prices, so that the outlook for the present is discouraging to operations. The "record" yield in sight in the Argentine, with a prospective export surplus placed as high as one and a-half million tons, must sooner or later influence the general situation, although it remains to be seen to what extent this may be counteracted by the prospective American demand, as many of the American mills, which had to suspend their operations pending the enforcement of the new tariff, have now resumed working. Owing to short crops in North America, American crushers had to depend this year more largely on importations from the River Plate than last year, as indicated by the fact that the shipments from the Plate to the United States for the first nine months of this

year were as much as 215,000 tons. The American takings may now be expected to be more restricted over a certain period at any rate, as domestic new crop supplies should become available in good quantities. The returns of shipments to European ports from the River Plate and India for the nine months January to September, with comparison of the totals against the same period last year, were as follows:

January to September	To U.K.	To Continent	Total
From River Plate ..	181,900	352,000	533,900
" India ..	134,225	100,350	234,575
Total .. (Tons)	316,125	452,350	768,475
Same period 1921 ..	447,775	486,850	934,625

It will be seen that contributions from the River Plate and India combined to this country for the nine months were about 131,500 short of the returns for the corresponding months in 1921, whereas the quantities shipped to Continental ports were again comparatively heavy, although denoting a decrease of 34,500 tons against the previous season. The aggregate shipped from both sources to U.K. and Continental ports at 768,475 tons thus shows a deficit of over 166,150 tons. Including the 215,000 tons dispatched from the Argentine to America, making a total of 983,475 tons, the whole of the shipments from the two main sources of supplies compares with 1,023,800 tons for the first nine months of 1921. The deficit is therefore of no great importance, thanks to the set-back in the River Plate shipments having been made up by the rehabilitation of the Indian export movement to Europe, amounting to 234,575 tons for the period mentioned. Prospects as regards the coming season point to very abundant and "record" supplies of linseed, while it is expected that a very full area will be again sown in India, and this should go a long way towards bringing down the cost of linseed oil to a more reasonable level of values during the next season.

Overseas Trade Revival

The feature of the Board of Trade Returns for September is that as compared with September of last year and August of this year there is a considerable decline in imports and a substantial increase in British exports. The appended table shows the comparison in the totals:—

Imports.			
			£
September, 1922	...	...	76,943,600
August, 1922	...	...	82,661,400
September, 1921	...	...	86,878,000
September, 1920	...	...	152,757,000
Exports.			
			£
September, 1922	...	...	62,511,000
August, 1922	...	...	60,032,200
September, 1921	...	...	55,247,600
September, 1920	...	...	117,456,000
Re-exports.			
			£
September, 1922	...	...	6,381,400
August, 1922	...	...	7,503,900
September, 1921	...	...	8,594,600
September, 1920	...	...	13,350,600

With regard to imports in September there was a remarkable decrease under the heading of foodstuffs, amount-

ing to £12,614,400, compared with last year, and compared with September of 1920, the decrease is £3,788,000 less, thus showing that the demand created by the war has passed away. Raw materials and articles mainly manufactured increased by £1,383,200, but oil seeds, nuts, oils, fats, resins and gums declined in value by £1,494,300 to £3,156,800, the falling off applying to practically all the scheduled items. Articles wholly or mainly manufactured show an increase of £1,339,000, amounting to £19,244,000. Here again manufactured oils, fats and resins declined by £1,007,700 to £2,384,000, petroleum and its derivatives accounting for the bulk of the shrinkage. There was a slight increase of £48,500 in imports of chemicals, drugs, dyes, and colours, the total amounting to £1,032,500, and compared with two years ago there is a decrease of £2,146,700. Most of the items last month showed an expansion, among the biggest being unenumerated potassium compounds (361,446 cwt.), sodium nitrate (106,755 cwt.), cream of tartar (3,081 cwt.), crude glycerin (6,346 cwt.), and barytes (63,237 cwt.). Quinine and quinine salts improved from 4,752 oz. to 104,856 oz., and cinchona bark from 1,230 cwt. to 3,488 cwt. The nine months' imports of drugs, chemicals and allied products were as follows:—1920, £26,019,300; 1921, £9,984,700; 1922, £8,343,600. On the export side there is a drop in food and the like by £146,000; raw materials and articles mainly unmanufactured increased by £3,102,000, due largely to the export of coal which rose in value by £2,916,000 to £8,110,000. A big advance is shown in manufactured goods, the increase being £4,352,000, of which £361,000 was for chemicals, drugs, dyes and colours, the total shipments being £1,733,883. As a whole these figures point to a general revival in export trade, and the sodium compounds group, which did particularly well, seems to be getting back to normal; a total of 817,400 cwt. was exported compared with 461,000 cwt. in last year. Ammonium sulphate is slowly expanding in quantity, 14,873 tons against 12,262 tons; bleaching powder rose from 6,092 cwt. to 24,376 cwt., and coal tar products from £39,730 to £150,954; large exports of carbolic acid (36,829 cwt. for the month and 217,300 cwt. for the nine months) being a feature. September was a poor month for potassium compounds, only 3,788 cwt. being exported, compared with 6,023 cwt. at this time last year. The drug and medicine section shows a steady expansion, the figures being as follows:—

	1920.	1921.	1922.
	£	£	£
September	518,329	170,544	204,083
January-September ...	4,053,856	1,576,525	1,871,544

The above figures suggest we are reverting steadily to a pre-war basis, when drug and medicine exports varied between £200,000 and £250,000 per month.

Chemists and the Spirit Duty

THE war, which has made us re-adjust our outlook on so many other familiar questions, may be responsible for a change in our attitude towards spirit taxation policy also. The idea that spirits are a fit subject for taxation to any extent which is fiscally economic, because as an article of diet they are a luxury, may be acquiesced in when the rate of duty is the comparatively low one in force before the war, but becomes quite untenable when the duty has increased, as is the case now, to five times the old rate. At best, and at all times, the theory has been incomplete, for the use of spirits has hardly ever been confined to beverage purposes. For nearly seventy years Parliament has by express enactment recognised this; but it is only too clear that the degree of recognition has been halting and imperfect. We need only refer to the instances of the important industries of perfume

and essence making as illustrations of this. The handicap of having a duty to pay of about £5 the bulk gallon on the spirits used in the making of perfumes and essences hardly needs to be pointed out. It is one for which some remedy ought to be devised without delay. The suggestion of the use of iso-propyl alcohol, either alone or mixed with ethylic alcohol in lieu of the duty-paid spirits now employed, has been made. But we are by no means confident that unfettered liberty to use iso-propyl alcohol in the making of perfumes would be allowed by the Commissioners of Customs and Excise, and, as the law stands, it would appear to be an offence to make or use the alcohol, otherwise than in accordance with the regulations of the Commissioners. On the question of whether official permission ought to be granted, a good deal might, and probably would, be said on the official side. The Commissioners would not, for instance, think themselves justified in sanctioning the use of an alcohol duty free under circumstances in which there would be a risk of the article being used for beverage purposes. Further, the use of a duty-free for a duty-paid alcohol in the production of perfumes could not fail to have an adverse effect on the revenue from spirits. On the other side, it might be urged that glycerin can now be used—though an indifferent substitute—to displace duty-paid spirits, without any suggestion that it should be subjected to a duty to correspond to that on the spirits displaced. There is also the vital national consideration that everything feasible should be done to add to the volume of employment. As regards the question of what, if any, safeguards ought to be required against the risk of the use of the alcohol for beverage purposes, it would be difficult to say anything very definite without having at our disposal particulars of the processes of manufacture, and of the ultimate disposition of the alcohol. But we have sufficient faith in the flexibility of the official mind to believe that if anyone who desires to use iso-propyl alcohol for making perfumes will apply to the Commissioners in the usual way for permission, his application will be adjudicated upon in the light of the changed order of things under which we live. At the worst, it will aid in drawing attention to the evils of a high rate of spirit duty, and, it may be, do something to bring about a remedy.

Retail Pharmacists' Union

Birmingham.—The annual meeting of this branch was held at the Imperial Hotel on October 9, Mr. J. W. Atkinson in the chair. The annual report and statement of accounts were read by the secretary and adopted. These will shortly be printed and circulated. The ballot resulted in the election of the following *Committee*:—Messrs J. W. Atkinson, J. T. Bell, H. Buckingham, E. S. Francis, G. Knowles, E. W. Mann, H. H. Marshall, J. Poole, H. Rigg, W. Shakespear, C. V. Thompson, J. Wakefield. Discussions on trade subjects took place, and Mr. Marshall was able to inform the members of the attitude of, and work being done by, the Executive.

Manchester.—A meeting of the Manchester and District Branch was held on October 4, Mr. A. Hershberg in the chair. Mr. Hershberg gave a detailed account of the work done by the branch since the last annual meeting (about eighteen months ago). He recounted the valuable work done by the local executive; there had been no opposition to the re-election, no new members being nominated. The report was adopted. Arising out of a general discussion, the following resolution was carried:—"That the R.P.U. be requested to approach representatives of the company chemists for the purpose of considering if united action could be taken with respect to non-profitable proprietary articles." Mr. J. H. Nidd, the mover of the resolution, said it was almost impossible, and certainly impracticable, to organise any decisive measures before they got the large company shops on their side. The treasurer (Mr. G. H. Haines) submitted his report, his balance of £5 1s. 4d. being considered eminently satisfactory. The new constitution and by-laws were submitted, and were approved. Under the new by-laws the date of the annual meeting is carried forward from March to October, whence the subscription now runs. Votes of thanks to the officers concluded the business.

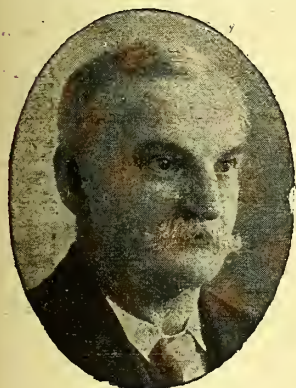
Presentation to Mr. W. F. Wells

PRIOR to the monthly meeting of the Council of the Pharmaceutical Society of Ireland, at 67 Lower Mount Street, Dublin, on October 10, an interesting function took place. A handsome piece of silver plate was presented to Mr. W. F. Wells, M.P.S.I., who has recently resigned his seat on the Council. Mr. Wells, as most students of pharmaceutical affairs are aware, was for forty years a member of the Council, and was President of the Society on two occasions (1895-97 and 1904-05). He is also a past-President of the British Pharmaceutical Conference. The piece of plate presented to him bore the following inscription:—

Presented to W. F. Wells, Esq., M.P.S.I., by his fellow Councillors upon his retirement from the Council of the Pharmaceutical Society of Ireland, after a distinguished membership of 40 years.

THE PRESIDENT'S EULOGY.

DR. A. J. BARNES (President of the Society), who presided at the function, said he would like in the first place to offer a few words of explanation regarding the genesis of the present very interesting occasion. About the middle of last July he was approached with a proposal that their two good friends, Mr. Wells and Mr. Beggs, should not be allowed to sever their connection with the Council without some little mark of appreciation of their long and devoted services to the Society being shown to them by their colleagues.



MR. W. F. WELLS,

President of the Pharmaceutical Society of Ireland, 1895-97 and 1904-05; President of the British Pharmaceutical Conference, 1911.

He immediately fell in with that proposal; and, to be quite frank, he had not a little heartburning that he was not the author of the suggestion himself. The suggestion originated with his friend Mr. Watson; and it was Mr. Watson who carried out all the details. With him (the President), however, the sole responsibility lay for postponing the present occasion. He did so because Mr. Beggs was leaving Dublin almost immediately; and he felt that with the very limited time at their disposal there would be a risk of full justice not being done to either presentation if both were made on the same day.

He wanted to have a special occasion devoted entirely to Mr. Wells himself; and he hoped that nobody would fall out with him for having adopted the course he had explained. He was sure they were all very glad indeed to see Mr. Wells with them that day. (Hear, hear); and he was sure they were further pleased to see him looking so well. (Hear, hear.) He did not think it had fallen to the lot of any previous occupant of the chair to deal in so short a time with so many changes in the *personnel* of their Council. The recent resignations had filled them all with the deepest possible regret; but, on the other hand, there was the distinct consolation of knowing that these resignations had not been brought about by any internal causes, for, above all else, the one striking thing about their Council was the harmony which exists personally amongst its members. (Hear, hear.) On the contrary, the resignations had come about through a very natural cause indeed, and that was that the members concerned were desirous of what they were well entitled to—a rest from their labours. To be a member of the Council of the Pharmaceutical Society of Ireland was not by any means the easy thing which it looked. It required the very closest attention, and not infrequently

involved a considerable amount of anxiety. He (the President) had now been for six years a member of it, and even at the end of that short period he felt very much like wanting a rest himself. What must it be then in the case of Mr. Wells, who had to his credit a service nearly seven times as long? None of them grudged him that rest, but all of them deeply deplored his absence. It had left a stupendous blank. With his extremely regular attendance at their meetings they had grown accustomed over a number of years to see him in his usual place; and now that he was not there the sense of loneliness that had come upon them was very great indeed—that loneliness which was directly born of the highest possible regard for him. But that regard for him was not peculiar to the Council of the immediate past. It was associated with former Councils; and one of the best pieces of evidence to his mind of that was the fact that Mr. Wells occupied the chair of the Society for two separate periods. Usually, after a member of a public Board was elevated to the chair, he occupied it for one, two, or three years, as the case might be; and at the end of that time he was done with the office of President for ever. But Mr. Wells, after a lapse of some years, was called to the chair for a second time—certainly a signal honour for signal merit. He said "signal merit" advisedly, because no member of their Council had worked harder on it. In regard to earnest efforts in the interests of the Pharmaceutical Society, and its licentiates, the name of W. F. Wells stood out most prominently of all, and it was a name that undoubtedly—and deservedly so—would go down as an illustrious one in the annals of Irish pharmacy. Unfortunately he (the speaker) was not in a position to pay the tribute that he would like to pay to the work of Mr. Wells, for the simple reason that much of it was done before he became a member of the Council himself. As he was not familiar with the precise details of it, he must rely upon some of the senior members present to give some little idea of what Mr. Wells did for the Society in earlier years. He was proud, however, to be in the position of presiding over a meeting specially called to show appreciation of that work; and he would always look back with pleasure to the fact that he had been chosen as the spokesman to ask Mr. Wells to accept, as a very small token of their appreciation, this piece of silver, and to ask him to accept it with the very sincere wishes of everyone of them for many years of happiness and good health on his retirement from official pharmacy. (Applause.)

The President then made the presentation to Mr. Wells amid applause.

THE SENIOR MEMBER'S TRIBUTE

DR. J. A. WALSH, as the senior member of the Council, asked leave, before Mr. Wells acknowledged the presentation, to endorse every word that the President had said in his tribute. Mr. Wells had been a member of the Council for over forty years. During thirty of them it had been his (Dr. Walsh's) good fortune to have been associated with him on the Council, and he knew that before he had joined the Council thirty years ago Mr. Wells had already done yeoman service, because at that time the Pharmacy Amendment Bill was passing through, and he knew that night and day, week in week out, Mr. Wells and a few devoted colleagues—but especially Mr. Wells—spent their time and their energies in getting the Bill hammered into such a state that it might be acceptable to the Pharmaceutical Society of Ireland. There were at that time a great many forces arrayed against them, all acting for their own selfish ends; but, through the action of Mr. Wells at that time, the Society was spared having to swallow an Act which perhaps might have swamped them completely had it gone through in the shape in which it was tried to force it through. During his (Dr. Walsh's) presidency the Poisons and Pharmacy Act was going through Parliament, and he would have been in a very sorry plight at that time but for the assistance that Mr. Wells had ungrudgingly given. Mr. Wells went over with him to London: the Bill was then going through the House of Lords. Mr. Wells obtained entry for them to that august assemblage and got the ear of some of the members, so that it

seemed for a long time as if the Act, so far as Ireland was concerned, would have gone through in a manner not so detrimental to the Society as unfortunately it afterwards did. The Society had a very strong force arrayed against it; and during Mr. Smith's presidency also Mr. Wells remained at the helm and did everything that man could for the Society. Not only on those occasions, but on other occasions, Mr. Wells had taken the Society's work to heart and had acted for it as if it were his own child that he was guarding against outside forces. He also wished to express his sense of the loss of Mr. Wells's genial presence at their meetings of the Council. He was sure they would more and more miss his wise counsel.

TWO EX-PRESIDENTS' TESTIMONY

Mr. J. E. CONNOR, J.P., said that as one of the senior members he would like to associate himself with the remarks which had been made concerning their good friend Mr. Wells. Pharmacy in Ireland would lose in his retirement one of their best and most unselfish representatives. Mr. Wells had endeared himself to all licentiates throughout the country. When he was in the chair, or taking part in their debates, they all knew that the interests of their craft were being looked after in the very best possible manner. He (Mr. Connor) deeply regretted the retirement of Mr. Wells, and he expressed regret on behalf of all licentiates throughout the North. He hoped he might be long spared to enjoy his well-merited retirement.

Mr. JOHN SMITH said it was now a good many years since he became a member of the Council; and even before that time—in 1890, when the Amendment Bill was before Parliament—he knew the work that Mr. Wells did for the Society. At that time Mr. Charles Evans was President of the Society, and he (Mr. Smith) remembered the way in which he spoke of the extraordinary amount of work which Mr. Wells put through on behalf of the Society on that occasion. During his own presidency he (Mr. Smith) had reason to be glad to have Mr. Wells at his elbow from time to time. Mr. Wells was always approachable, always willing to give advice and assist in every way he could. Mr. Wells had devoted his time and very often sacrificed his comfort in his work of trying to get the Poisons and Pharmacy Act into shape. He (the speaker) did not know any man who was looked up to in the way that Mr. Wells was in connection with pharmacy. His name was well known throughout England and Scotland. He had been President of the British Pharmaceutical Conference, and had distinguished himself in that capacity. He (Mr. Smith) felt very much his retirement from the Council. He was glad to know, and he was sure they were all glad to know, that he was in health and able to enjoy his well-earned rest from the worries of business and of some of his other engagements.

THE TREASURER AND OTHER COUNCILLORS ADD PRAISE

Mr. D. M. WATSON said their President had reminded them of something that he (Mr. Watson) had forgotten—that he was the originator of this proposal. Although he generally disagreed profoundly with Mr. Wells, and very often fundamentally, as to the best interests of pharmacy, Mr. Wells had never, during the twenty years he had been working with him on the Council, shown the slightest trace of anything of that wretched personal element which disfigured so much what might be called honest disagreement. He felt very much Mr. Wells's departure from the Council. The President and the other speakers had spoken extremely highly of Mr. Wells. But too much had not been said. Dr. Walsh and Mr. Smith had spoken of the services which Mr. Wells had rendered to the Society during their terms of office; and they had practically gone over the ground during the time he (Mr. Watson) was in the chair as well, because they were all working together during that time. He would only say how glad he was to be present to be able to join in the expressions of goodwill towards Mr. Wells on his retirement from the Council.

Mr. FRED STOREY said he would like to associate himself with what had been said with regard to their good

friend Mr. Wells. As representing a body which had come into conflict with Mr. Wells on many occasions, and as one who had personally come into conflict with him, he would say that he had never felt anything but the highest esteem and regard for him. He had always regarded Mr. Wells as a clean fighter who had done everything for the best of pharmacy; he still held that opinion; and that opinion was held by the chemists and druggists throughout the country. The personal element never entered into the controversy so far as Mr. Wells was concerned. Mr. Wells was quite content to come to the Council and fight his point there, and when that was done they were friends as before. As representing the druggists, he thoroughly associated himself with all that had been said about Mr. Wells.

Mr. RICHARD BLAIR (Vice-President) said he desired to associate himself with everything that had been said with regard to Mr. Wells. Mr. Wells and himself did not always see eye to eye, but they agreed to differ. Mr. Wells, whenever he thought it his duty to do so, always manfully upheld his opinion, and they always respected him for it.

The PRESIDENT said he would like to read two letters of apology. The first was from Mr. G. D. Beggs (late treasurer), who wrote from London: "... I should so much like to be present, but unfortunately I met with an accident—a couple of ribs smashed—so the doctor advises me not to cross just at present. ... Will you convey to the members my deep regret at not being able to be present, and especially to my old colleague, Mr. Wells?" The second letter was from Mr. James Tate (past-President), who wrote from Belfast: "... No member of the Society is more worthy of honour. The whole existence of our Society accentuates in a marked degree the seen and unseen hand of W. F. Wells; and in my opinion his absence will cause a blank in work and debate that few, if any, can possibly fill. I should indeed be delighted to be present to place a garland of thanks in acknowledgment of his labours of love and good works so long and faithfully contributed to the Pharmaceutical Society of Ireland, and to wish him many years of continued usefulness in his retirement."

MR. WELLS'S REPLY

Mr. WELLS, who was warmly applauded, said he found it very difficult to express his feelings. He greatly appreciated all the kind things that had been said of him, and he greatly appreciated the mark of their esteem which they had just presented to him. So long as he lived it would be seen with other heirlooms that he had received from the Society. He wished he could believe that all that had been said of him was deserved; but he would say this—that when he joined the Council he joined it with a desire to do his level best for pharmacy in Ireland. He did not care what a man thought of him. He believed in a man having the courage of his convictions. It would be a very poor Council indeed if every one of its twenty-one members was of the same way of thinking. He looked back for forty years, and he thought of all the eminent pharmacists, and, of late years, of the many registered druggists with whom he had come in contact and with whom he had worked on the Council; and he could sincerely say from his heart that, though he differed from men and would differ from them again, he never thought the worse of a man because he differed from him. (Hear, hear.) He would look back with pleasure to the fact that he had had association with very many eminent pharmacists, and that it was his privilege to count many of them as intimate friends. This presentation that the Council had honoured him with was the third presentation he had received from the Pharmaceutical Society. Dr. Walsh had spoken of 1890. That was a memorable time. Mr. Evans as President, he himself as Vice-President, and Mr. Hayes went to London to oppose the Bill that had been introduced in the House of Commons without their knowledge. The Council left them to act as they thought best, and directed them to do their best to get the Bill amended in such a way that it would be workable, for the Bill could never have been worked as it had been drafted. They

met with great reverses at the beginning. When they got to London they found that an eminent druggist who was running the Bill had got hold of the whole House of Commons. They were left in the lurch; they could not get a man to stand up and speak for them. They consulted as to what they should do, and they decided that they would execute a little flanking movement. While their opponents were very busy in the House of Commons they went into the House of Lords and got hold of one of the noble lords, the Earl of Meath, who told them that when the Bill came before the House of Lords he would wire them to Dublin to come back. They succeeded in getting that Bill amended in such a way that it had been workable. He had opposed that Bill; he still thought that it was a mistake; but when it was passed into an Act of Parliament he loyally did his best, with the other members of the Council, to be fair and just to the members throughout the country. And it was a matter of very great moment to him that Mr. Storey had voiced the feelings of the druggists. He knew that they and he had differed, and he knew that the druggists in the North had given him credit for doing what he thought was right on behalf of the Society. Some years ago a gentleman wrote a letter to THE CHEMIST AND DRUGGIST, accusing him of acting dishonourably; and the Editor published a footnote stating that Mr. Wells's worst enemy would give him credit for always fighting fairly. He thought that was a very high eulogy. (Hear, hear.) He had aimed at doing his duty on the Council. It was a great wrench to him to sever his connection with it. But when a man went over the allotted span of three score years and ten he found that it was necessary to relieve himself of some of his work and anxiety. That was his reason for severing his connection with the Council. He had made many friends, and he had had many happy days in the Council. They had done hard work, but they had got their reward. The Council, in 1898, made him a presentation of a very handsome silver rose bowl, which was one of his trophies. He could not tell them of the deep gratitude he felt to all of them for their very kind words and for their beautiful present, which he would esteem as long as he lived. He hoped he would not sever his connection with the many friends he had met on the Council. He thanked them, one and all, for their very great kindness to him. (Loud applause.)

Proprietary Articles Trade Association

A MEETING of the P.A.T.A. Council was held at the Holborn Restaurant, London, W.C., on October 12, when there were present Messrs. P. F. Rowsell, J.P. (in the chair), A. J. Barnes, S. N. Pickard, G. R. Barclay, J. Godber, W. C. Birks, H. M. Read, S. Watson, J. J. Pilley, H. S. Kutnow, A. Higgs, A. R. Keith, J. Milner, A. R. Lewis, A. Bond Hickisson, H. W. Gadd, Page Woodcock, F. R. L. Newbery, W. H. Saunders, F. J. Smith, A. T. Webb, W. Edwards, A. T. Hall, J. B. Francis, J. A. South, E. Pickering, F. M. Powell, A. Ridout, R. Feaver Clarke, J. G. Atkinson, N. N. Armistage, John Keall, W. H. Woodward, J. A. Kenningham and the secretary. The following report of the Executive Committee was received, and unanimously adopted.

PRICE MAINTENANCE OF GLAXO

Your Executive have for many months been seriously perturbed at the increase in the cutting of Glaxo. The list of grocers who are so cutting has been increasing in number, and the area over which this cutting is spread is rapidly enlarging. Every avenue which promised a remedy has been explored, and Mr. Wolff, the sales manager of Glaxo, was invited to the September meeting of the committee to discuss the position. As the outcome of that meeting, letters have passed between the Association and Messrs. Glaxo, copies of which are appended to this report. Since the despatch of the letter to Messrs.

Glaxo on September 18, serious developments involving the extensive cutting of Glaxo in the drug trade have arisen, and this has only been averted by an undertaking to refrain from cutting until a decision of this Council at its meeting on October 12. Your Executive have had the benefit of the result of the consideration of the position, and of the correspondence by meetings of the manufacturers, wholesalers' and retailers' sections of the Council held this week. The manufacturers' section have decided that they would not be prepared to refuse supplies of their goods to firms placed on the Stop List for the sole reason that they were cutting Glaxo to meet the competition of grocers, whose supplies, in the meantime, neither the Association nor Messrs. Glaxo, under their present scheme of distribution, were able to control. Your Executive agree that this decision of the manufacturers' section is a reasonable one. It does, however, for the following reasons, in the opinion of the Executive, make it necessary for the Council to decide to immediately disclaim responsibility for the price maintenance of Glaxo, involving the removal of the article from the Association's list:—

(1) There is a large quantity of Glaxo on the market in the hands of a large number of wholesale and retail grocers who are not seriously affected by being placed on the Stop List, seeing that they do not require to stock the great range of articles controlled by the Association. In any case, considerable time must elapse before these stocks are exhausted under any method of control exercised over that section of the trade.

(2) The alternative suggested by Messrs. Glaxo whereby the Association should create a special class for articles included in the Protected List, showing so great a reduction of profit as would result in the retailer getting 15 per cent., and the wholesaler $7\frac{1}{2}$ per cent. or an amount arrived at by a rearrangement as between wholesaler and retailer of a total profit of about $22\frac{1}{2}$ per cent. is fraught with such far-reaching consequences for good or evil to the drug trade that the Council would not be justified in coming to a decision without first consulting the drug trade through the Retail Pharmacists' Union, and the numerous local chemists' associations in the country. This procedure would again involve considerable delay. It therefore appears that at the best the present cutting by grocers would not only continue, but, for a time, would rapidly increase, and the Committee are satisfied that it would be neither feasible nor fair to strain the forbearance and loyalty of their friends in the drug trade by asking them to continue to allow themselves to be undersold by the grocery trade.

The Committee are satisfied that the Council and the members of the Association will realise the danger to the work of the Association if it retains on the Protected List articles the supplies of which it is unable to control. The price maintenance scheme of the P.A.T.A. was devised to protect the selling price of articles sold in the main through the drug trade, and in regard to these classes of articles it is universally agreed that it has been successful beyond anticipation. It is clear that the scheme, however, cannot provide efficient protection for articles sold so largely through the grocery or any other trade outside that of the drug trade. The decision of the committee has not been actuated by any spirit of unfriendliness to the proprietors of Glaxo. So far from this being the case, they desire to express their appreciation of the intention of the proprietors to devise a scheme which they themselves would put into operation to prevent price-cutting. They feel sure that in the circumstances the Council will gladly give the moral support of the Association to any efforts the firm may make in this direction. The Committee trust that the Council will urge all the members of the Association and friends of price maintenance to refrain from cutting the article below its present minimum price, for such a reasonable period of time as may be found necessary for the firm to launch their proposed scheme of price maintenance.

Then follow the letters referred to in the above report. The Council also considered a number of applications to add to or vary the Protected List.

Associations' Winter Session

Bath.—The annual meeting of the Bath Pharmaceutical Association was held on October 11, Mr. D. J. Williams presiding. The annual reports of the treasurer and secretaries were read, the former showing a balance in hand of over £9, and the latter a record membership. The following officers were elected for the coming year: *President*, H. C. Broad; *Vice-President*, D. J. Williams; *Treasurer*, W. H. Mallaband; *Secretaries*, P. J. Thompson and W. J. Hallett; *Committee* (in addition to the foregoing), C. Jenkin, R. H. Moore, L. Wilson. The retiring treasurer (Mr. J. Cooper) was warmly thanked for many years' valuable service to the Association.

Birmingham.—The annual general meeting of the Birmingham Pharmaceutical Association was held on October 9, Mr. J. W. Atkinson (President) in the chair. The annual report and statement of accounts were read by the secretary and adopted, the President commenting upon the various items. The following committees were elected:—Rules, Minimum Prices, Education, Hospital Out-Patients' Dispensing, Programme, Unprofitable Proprietaries, Joint General Purposes. The proposed alterations of rules were unanimously adopted. A provisional programme for the coming session was presented and approved. Votes of thanks to the President and Mrs. Atkinson, and to the secretary, were accorded and acknowledged.

Chemist-Opticians.—A meeting of the general purposes committee of the Society of Chemist-Opticians was held at 42 Cannon Street, London, E.C., on October 16. There were present Messrs. S. W. Woolley (chairman), R. Fouracre, F. S. Horsey and J. Harcombe Cuff (secretary). The following were elected members:—Messrs. J. Ashton, Ashton-under-Lyne; P. Cheetham, Tidworth; P. Kieran, Ballinamore; F. McAnnaly, Carlow; D. J. Rushton, Birmingham. A number of accounts were passed for payment. It was decided to hold the meetings in future on the third Monday in January, April, July and October.

Ealing.—The first meeting of the present Session of the Ealing and District Pharmacists' Association was held on October 10, the president (Mr. T. Marns) in the chair. The secretary, on behalf of the members, congratulated the President on his election to the Pharmaceutical Society's Council, and I wished him every success. It was noted that the Ealing Association has now three members on the Council. Mr. Marns outlined the proposals for the formation of a branch of the Pharmaceutical Society. It was decided to hold a whist-drive in November, and the annual dinner was fixed for January 31, 1923. The Association invited members of the Pharmaceutical Society in the area to a meeting on October 16. Mr. T. Marns, President of the Association, was elected chairman of the meeting. Mr. E. T. Neathercoat, President of the Pharmaceutical Society, outlined the new scheme of branches throughout the country. He gave a brief review of the work of the Society, and referred to several matters concerning which, he said, the branches could do useful work with advantage both to the Society and the individual members in the area of the branch. Mr. Neathercoat referred to the fact that the first annual Conference of the Pharmaceutical Society would be held in London next year, and that each branch would be entitled to send official delegates, but any member of the Society could also attend. A hearty vote of thanks was accorded to Mr. Neathercoat. After a short discussion, Mr. E. H. F. Williams moved:—"That a branch of the Pharmaceutical Society be formed for Ealing and district." This was carried unanimously. The following officers were elected:—*Chairman*, Mr. T. Marns; *Secretary*, Mr. H. R. Storm; *Treasurer*, Mr. R. F. Edkins. Miss E. L. Hoare and Messrs. A. J. Wells and W. Adamson were elected as additional members upon the Committee. Mr. H. A. Irwin was appointed official delegate to the annual Conference. In the unavoidable absence of Mr. Storm, Mr. G. A. Tocher acted as secretary: a vote of thanks was accorded to him for his assistance.

Liverpool.—A well-attended meeting of the Liverpool Chemists' Association was held on October 18, the President (Mr. W. H. Clubb) in the chair. The nomination

of Mr. A. W. Ashcroft (Vice-President) as President for next year was unanimously approved, and Mr. Ashcroft accepted the office with the assurance of loyal support. Dr. J. Smeath Thomas, Senior Lecturer in Analytical Chemistry at the University of Liverpool, lectured on *The Ultimate Nature of Things*. He regretted he had not been able to prepare lantern slides. Recent research work promised early discoveries which might have important effects on civilisation. He detailed Sir Ernest Rutherford's experiments in radio-activity, and showed that an atom might be defined as a microscopic solar system. In conclusion, he said that if hydrogen atoms were converted into helium the energy generated would be beyond dreams of the past, and if that energy could not be controlled the world conflagration would be infinitely greater than the collision between two stars. A cordial vote of thanks was accorded to the lecturer.

London (W.).—A meeting of the Western Pharmacists' Association was held at 192 Oxford Street, W., on October 18, the President (Mr. W. E. D. Shirliff) in the chair. In opening the proceedings, the President welcomed the members of the National Association of Women Pharmacists (London group), who turned up in strong force, and extended a greeting in felicitous terms to Miss Buchanan, of the Pharmaceutical Society's Council, on her return from Canada. After routine business, Miss Buchanan delivered an address on *Canadian Experiences*, referring from time to time to a large map. Each of the nine provinces of Canada, Miss Buchanan remarked, in speaking of the mission on which she went, has a separate qualification, and consequently it is not possible to deal with Canada as a unit in the matter of reciprocity. The three "prairie" provinces set a high standard by insisting on matriculation standard for the preliminary examination. There are two sets of laws, Dominion and provincial—a state of affairs tending to complication. All but one of the Canadian pharmacy boards, however, is affiliated to the Canadian Pharmaceutical Association, which is to be incorporated by Act of Parliament. A conference of this body is held every year, somewhat on the lines of the British Pharmaceutical Conference, and it has elected Miss Buchanan its first foreign member. Apart from the University of Ontario, which has a B.Sc. degree in pharmacy, there is no distinction higher than the qualifying examination. Pharmacists' stores are usually magnificent corner shops. Dispensing prices are so high that patents sell to an enormous extent. The hours of business are very long, frequently extending to 11.30 p.m.; and much wealth seems to result, most people owning one or more motor-cars. Intensive campaigns in advertising—e.g., the pushing of chocolate or ironised yeast by every form of publicity for weeks at a time—are a feature. Our education *plus* Canadian adaptability would make an interesting combination. (Applause.) Questions were asked by the President, Mr. B. R. Wilkinson, Mr. W. Browne, Mr. J. T. Barrett, Mrs. Irvine, Mr. J. P. Ellerington and others, and Miss Buchanan evoked considerable laughter in the course of her animated reply. A vote of thanks, carried by acclamation, closed the proceedings.

Nottinghamshire.—A meeting of the Nottinghamshire Pharmacists' Association was held at Mansfield on October 11, Mr. J. A. Pegg in the chair. After the secretary's and treasurer's reports had been read, a resolution to wind up the County Association was put to the meeting and carried. Under the Pharmaceutical Society's organisation scheme it was agreed that the name of the new Association should be "The Chesterfield and Mansfield Pharmacists' Association," with headquarters at Mansfield. A small committee, representative of Mansfield and the surrounding district, was appointed to meet the pharmacists of Chesterfield and district, to make suggestions for the working of the new Association. Of the money subscribed by the county pharmacists towards the expenses of the conference recently held at Nottingham, 25 per cent. will be returned to the Association, and it was resolved that it be given as a donation to the Pharmaceutical Society's Benevolent Fund.

Salford.—The first meeting of the present session of the Salford Pharmaceutical Association was held on October 12, the Vice-President (Mr. Blore) in the chair. Mr. Roberts, F.A.I., gave an interesting lecture on book-keeping, and answered several intricate questions on income-tax. The meeting closed with a hearty vote of thanks to Mr. Roberts, proposed by Mr. Simmons.

Sheffield.—A meeting of the Sheffield Pharmaceutical and Chemical Society was held on October 6, Mr. A. Knowles presiding. Mr. John Keall, a member of the Pharmaceutical Society's Council, gave an address entitled *Pharmaceutical Affairs in General*. After making a strong appeal on behalf of the Benevolent Fund (pointing out that the subscriptions were down for the year by £500), Mr. Keall claimed that the Society held a unique position in being allowed to administer the Pharmacy Acts. Dealing with the "Journal," he asked for the support of the members in giving out their advertisements; he was quite sure, without wishing to say a word against any other journal, that there is ample scope for two weekly journals. On the educational side he thought the middle course was the best to take. The speaker also dealt at length with the scheme for the formation of branches of the Society. A sustained discussion took place. Mr. Norwood making a special appeal for country members. Mr. Keall answered questions, and a hearty vote of thanks was accorded to him.

East Anglian Federation

The quarterly meeting of the East Anglian Federation was held at Norwich on October 5, the President (Mr. J. W. Bodger) in the chair. Several questions were asked with regard to the War Auxiliary Benevolent Fund, and the general opinion of the meeting was that the large amount of money in hand should be utilised rather than conserved indefinitely. A communication was received from the Peterborough and District Association intimating its final decision to withdraw from the Federation. The matter of local branches of the Pharmaceutical Society was fully discussed, and considerable disappointment was shown by members present that definite details were not yet forthcoming. Unprofitable proprietaries was an item of the agenda which evoked some strong criticism on the part of several present; the feeling was generally expressed that this matter should be dealt with in a firm manner. It was considered that the strong line of action which has been taken with regard to one proprietary could equally well be followed in other cases. A resolution was unanimously passed to be forwarded to the Retail Pharmacists' Union stating that, in the opinion of this Federation, the time has now arrived for a strong boycott of unprofitable proprietaries, and that a referendum should be taken of all chemists in business, and also of the principal stores, with a view to ascertaining how such action would be supported. A member of the Norwich Association read a paper entitled *Extra Sales versus Substitution as a Means of Increasing Profits*. He pointed out that while the overhead charges remain very high without much prospect of descent, and the purchasing power of customers is on the decline, the chemist is faced with the problem of increasing sales. Every day fresh preparations are put on the market which detract from the sales of chemists' own lines; such articles, being well advertised, must be stocked, and in that way the chemist is in danger of losing his status as a salesman and becoming a mere distributor of advertised lines. With regard to substitution, or, as he preferred to call it, suggestion, he was of opinion that there was a wide field for the display of salesmanship without the necessity of putting into the minds of customers that chemists are trying, in the words of many advertisers, to sell an inferior article. There were also many instances in which the sale of an article should give a good salesman an opportunity to suggest some other line which could well be sold in conjunction with it. A hearty vote of thanks was accorded to the author of the paper. A question was raised in regard to certain wholesale firms supplying preparations labelled with P.J.F. numbers to traders other than chemists, and it was decided to call the attention of such firms to the practice.

Trade-marks Applied for

The figures in parentheses refer to the classes in which the marks are grouped, for a list of which, with particulars as to registration, see "The Chemist and Druggist Diary," 1922, p. 277.

(From "The Trade-marks Journal," September 27, 1922.)

"SANA"; for petroleum jelly and paraffin for toilet purposes, and for bath salts (48). By F. Sheldon & Sons, 1 Bangor Street, Sheffield. B. 422,124.

"CERES"; for all goods (48). By D. Thom & Co., Ltd., Indigo Street, Whit Lane, Pendleton, Manchester. 426,792. (Associated.)

"DORFWYCH"; for all goods except perfumes, perfumed soaps and hair washes (48). By J. H. Browne, Hair-dressing Department, Waldorf Hotel, Aldwych, London, W.C.2. 426,899. (Associated.)

"MANDARINE"; for face powder (48). By A. Bourjois et Cie., 60 Rue d'Hauteville, Paris. 427,509.

(From "The Trade-marks Journal," October 4, 1922.)

"JIFFY"; for dyes (1) and (4). By Wm. Edge & Sons, Ltd., 50 Raphael Street, Bolton, Lancs. 428,641/642. (Associated.)

"MOORAZINE"; for a veterinary external remedy (2). By M. Moore, 28 Tram Terrace, Clontarf, Dublin. 417,776. (Associated.)

"DIFEX"; for chemicals (2). By J. L. Thomas & Co., Ltd., 163 Fore Street, Exeter. 427,689.

"MERIOD"; for capsules for preventing sea, train, and air sickness (3). By Cooper, Son, & Co., Ltd., 80 Gloucester Road, South Kensington, S.W.7. 424,802.

"CURO HEALTH SALT," with label devices, including Huntsman and Hounds ("Curo" disclaimed); for medicated salts (3). By G. Mellis & Son, Ltd., 28 Guild Street, Aberdeen. 425,861.

"VELOCITY" and "VELO" (Velocium); for medicine (3). By J. Mason, 175 Piccadilly, London, W.1. 425,638; 426,067. (Associated.)

"PRAM"; for all goods (3). By W. R. A. Gilman, 251 Ashton New Road, Manchester. 427,866.

"MUTHYDRAL"; for a medicinal chemical (3). By G. M. Roure, 238A Gray's Inn Road, London, W.C.1. 427,943.

"PYORHEATOL"; for all goods (3). By The Rockcastle Chemical Co., 94 Market Street, Manchester. 428,053.

"MAPOSO"; for medicinal chemicals (3). By Timothy White Co., Ltd., 30 Chandos Street, Portsmouth. 428,159.

"WINSOME"; for food substances (42). By J. Nathan & Co., Ltd., 16 St. Helen's Place, London, E.C.3. 427,991.

"CLERI"; for perfumery, etc. (48). By Bolitho & Stringer, 211 Rue St. Honoré, Paris. 425,790.

(From "The Trade-marks Journal," October 11, 1922.)

"T. & K." under crown on circular label ("T. & K." disclaimed); for chemicals (1). By Typke & King, Ltd., Commonsides East, Mitcham Common, Surrey. 424,947/975. (Associated.)

"PONDUS"; for goods (1). By Gerb-und Farbstoffwerke H. Renner & Co., Actien-Gesellschaft, Billhorner, Canalstrasse 20, Hamburg. 425,341. (Associated.)

"LAKAMAL"; for all goods (1). By A. A. Megson, 25 Thorncombe Road, East Dulwich, London, S.E.22. 425,781.

"SEGATAN"; for chemicals (2). By Deutsche Gold und Silber-Scheideanstalt Vormalis Roessler, 7 & 9 Weissfrauenstrasse, Frankfurt, Germany. 427,206.

"FREESOL"; for disinfectants (2). By T. P. Patching, 79 Queen Street, London, E.C.4. 427,615.

"AGRICOLIM"; for chemicals (2). By Thomas & Co., Ltd., 19 Oldhall Street, Liverpool. 427,996.

"CARTER'S LITTLE NERVE PILLS," etc., on label with facsimile signature "Brent Good"; for pills (3). By Carter Medicine Co., 46 Holborn Viaduct, London, E.C.1. 422,668. (Associated.)

"IRONIZED YEAST" and device of hand clasping dumb-bell; for ironized yeast (3). By J. G. Dodson, 1128 Ponce de Leon Avenue, Atlanta, Georgia, U.S.A. 425,494.

"WOLSIL"; for medicated soap (3). By J. Watson & Sons, Ltd., Whitehall Road, Leeds. 427,598. (Associated.)

"PAXOL means OIL OF PEACE" under device of dove carrying leaf ("Oil of Peace" disclaimed); for an external lotion for skin affections (3). By W. R. C. Ashby, 7 Lansdowne Road, Croydon. 425,705. (Associated.)

"STOBAL"; for medicinal chemicals (3) and for perfumery, etc. (48). By Stone-Ballantine, Ltd., 13 Well Court, Queen Street, London, E.C.4. 427,645/646. (Associated.)

"BONOLINE"; for an ointment (3). By C. L. P. Harris, 43, Hargreaves Street, Wolverhampton. 427,893.

"LIZAT"; for ointment and lotion (3). By Elizabeth Scatterfield, 57 Linden Gardens, Chiswick, London, W.4. 427,973.

Insurance Act Dispensing

Record of matters concerning Chemists' interests in the National Health Insurance Acts

Local Reports

ENGLAND

Birmingham.—A meeting of the Pharmaceutical Committee took place on October 16. Among the matters dealt with were:—(1) Representations to the Panel Committee respecting certain formulas in the H.I.F. (2) The supply of further copies to panel chemists of the amended Regulations respecting dressings. (3) A request to the Insurance Committee to advise the number of prescriptions month by month when sending cheques. The Checking Bureau reports upon the May and June prescriptions showed that a reasonable degree of accuracy was being maintained. The Committee's observations were requested upon a complaint by a doctor of insufficient facilities in a certain district for the dispensing of late prescriptions. It was agreed that such contention was not justified, and the secretary was instructed as to the submissions to be made.

Blackpool.—The number of panel prescriptions issued in Blackpool during the quarter ending March 31 was 16,679, at a cost of £633, the average being over 9d. each. For the corresponding period of last year the prescriptions numbered 14,359, and the average cost was nearly 9½d., or a total of £582. The 56,249 prescriptions issued during 1921 reached a total cost of £2,017, showing an average of over 9½d. In the preceding year the cost of 49,145 prescriptions amounted to £2,085, or an average of nearly 10½d.

Bournemouth.—At a recent meeting of the Insurance Committee a letter from the South-Western Joint Pricing Committee was read, stating that the cost of pricing during 1921 was £3,642 10s. 4d., the total number of prescriptions priced being 2,204,066, the number in Bournemouth being 72,652, the proportionate cost of pricing which was £120 1s. 4d., and a balance of £13 8s. 8d. had been carried forward to the credit of the Committee for the current year. Accounts were paid as follows: Drug fund, Schedule B, £430 6s. 5d.; Schedule C, £202 19s. 11d.

Dorsetshire.—A meeting of the Pharmaceutical Committee was held at Dorchester on October 11, Mr. J. A. Haynes (Parkstone) in the chair. The secretary reported that the following pharmacists had accepted the invitation to fill vacancies on the Committee:—Messrs. T. G. Aitken (Parkstone), M. T. Evans (Weymouth), M. Oldfield (Poole), and W. L. Spicer (Dorchester). The reports of the Central Checking Bureau were discussed and approved. A letter was read indicating the attitude of the Ministry of Health towards the duplicate prescription books. It was unanimously decided to reject the single prescription forms.

Hampshire.—A meeting of the Pharmaceutical Committee was held on October 11, Mr. C. H. Baker in the chair. The reports of the Checking Bureau received to date were passed. Messrs. Wride, Gare, Smith and Martin agreed to attend a meeting of the Medical Benefit Sub-Committee and representatives of the doctors, to be held at Winchester on October 25, when the following matters will be discussed:—(1) The new pharmacopœia; (2) Prescription books to be used in the area.

Lancashire.—At a meeting of the Insurance Committee on October 16, Mr. Travis Clegg retired from the position of chairman after ten years' service. A case into which the Joint Services Sub-Committee had inquired and reported, in which a prescription had been directed to be taken instead of inhaled, was discussed. The report was adopted.

Lancashire.—Statistics supplied to the Insurance Committee show a fall in the average ingredient-price, per prescription, from 5.80d. in 1920 to 4.39d. in 1921, and in the dispensing-fee from 5.43d. to 5.41d.

London.—A meeting of the Pharmaceutical Committee was held on October 10, 1922, Mr. H. Skinner (chairman)

presiding. The resignation of Mr. J. Humphrey as a member of the Committee was accepted with regret, and the committee were unanimous in placing on record their high appreciation of his valuable services. Mr. D. A. Rees, Coldharbour Lane, was appointed to the vacancy. The report of the Central Checking Bureau for July showed a margin of error of 0.07 per cent. A letter was received from the Insurance Committee stating that necessary arrangements would be made to comply with the request of the Pharmaceutical Committee for the regular and prompt payment of chemists' accounts. The secretary reported, *inter alia*, particulars of dispensing for July as follows:—

	£	s.	d.
Cost of ingredients	5,330	18	7
„ „ dispensing-fees	7,071	4	2
Number of prescriptions	377,932		
Av. ingredient cost	3.39d.		
Av. dispensing-fee cost	4.49d.		

Provision has been made for dispensing in an isolated district of the south-eastern area.

N.E. Midland Bureau.—The report of the North-East Midland Pricing Bureau for the year 1921 has just been issued. The total number of prescriptions during the year was 1,986,193, an increase of 6,625 over 1920. The areas with the three highest numbers were Sheffield (454,126), Derbyshire (338,098), Nottingham (309,688), and the three lowest were Lincoln (33,169), Barnsley (40,425), Grimsby (43,433). In addition, 6,545 prescriptions (value £814 15s. 11d.) issued for the treatment of tuberculosis were also priced. A net expenditure of £2,873 2s. 8d. was incurred during the year, which, on the total number of prescriptions priced, is equivalent to a cost of £1 8s. 11d. per 1,000. For 1922, the estimated net expenditure is £2,905, and the number of prescriptions 1,983,000, equal to a cost, per 1,000, of £1 9s. 3½d. The number of prescriptions and value during the four preceding years was as follows:—

	Prescriptions	£	s.	d.
1917	1,681,852	45,245	12	0
1918	1,750,631	56,959	14	11
1919	1,627,223	59,047	17	4
1920	1,676,577	76,897	19	7

The average ingredient-price per prescription during the year was 3.4d., dispensing fee 5.4d. Derby had the highest ingredient-price (5.1d.), and Sheffield the lowest (2.9d.). There were 2,638 urgent fees, with a total value of about £59. Lincs (Lindsey) had the greatest frequency (970). The average percentage of alleged errors as indicated as a result of the Retail Pharmacists' Union scrutiny was 0.03.

Southampton.—At a recent meeting of the Insurance Committee, the clerk reported that he had furnished the Ministry of Health with reasons why the Committee had declined to agree to the adoption of a formulary. The Ministry had replied that the matter should be further considered by the Committee, and that, if they were still of opinion that the adoption of a formulary would prejudice the efficiency of the medical service, they would in due course indicate the manner in which that inefficiency is considered to arise. The clerk said that a copy of the Ministry's communication had been forwarded to the Pharmaceutical Committee. A reply was received from the Pharmaceutical Committee stating that in their opinion the adoption of the formulary would tend to inefficiency of the service owing to the delay that must ensue from the considerably increased labour the dispensing of the formulary prescriptions would entail. They urged the Insurance Committee to resist its adoption in Southampton. It was resolved to recommend that the Committee raise no objection to the adoption of the formulary.

DEVELOPMENTS IN CZECHOSLOVAKIA.—The first of a series of lectures on commercial developments in Central Europe was given at the City of London College on October 16. The lecturer, M. Jaroslav Cisar, dealt with the natural resources and trade of Czechoslovakia, which country, he said, although commencing without a gold reserve, had managed to put its currency on a sound basis.

Trade Report

The prices given in this section are those obtained by importers or manufacturers for bulk quantities or original packages. To these prices various charges have to be added, whereby values are in many instances greatly augmented before wholesale dealers receive the goods into stock, after which much expense may be incurred in carting and the like. Qualities of chemicals, drugs, oils, and many other commodities vary greatly, and higher prices than those here quoted are charged for selected qualities of natural products even in bulk quantities.

42 Cannon Street, E.C.4, October 19

A rather better tone has prevailed in the Mincing Lane produce markets, where the sharp advance in rubber easily takes first place. Sugar is firm, and has been advancing for several weeks past, likewise tea. Shellac, both for delivery and on spot, is dearer. Menthol is quite firm, and essential oils show more general activity than has been the case for a lengthy period. Senega on spot is firmer after recent sales by weak holders. Ergot is cheaper, and it has lately become evident that European crops are good. Chamomiles are again higher and difficult to buy in Belgium. Chaulmoogra oil is in good demand. Hydrastis is easier at the source, and mandrake root is dearer. Cochineal is lower. Isinglass was irregular at auction, but easier on the whole. Turpentine is a strong and dearer market in view of the threatened shortage available for export from America; linseed oil is quite firm, the position being affected by the scarcity of spot oil as well as seed. Mercury and platinum are lower. Crude antimony is dearer and scarce on spot.

Higher	Firmer	Easier	Lower
Acetone	Benzoic acid	Ammonia	Cochineal
Acid oils	Camphor (crude)	(anhydrous)	Cream of tartar
Ammon.	Hen yolk	Cajuput oil	Ergot
benzoate	Senega (spot)	Carbolic acid	Liquorice juice
Antimony		Cloves (Zan.)	Mercury
(crude)		Peppermint oil	Platinum
Caraway seed		(Amer.)	Sodium
Chamomiles	Steadier	Rape oil	sulphide (conc.)
Cottonseed oil		Sal ammoniac	Vanillin
Formaldehyde		Sassafras oil	
Geranium oil	Star anise oil	Sodium acetate	
(Bourbon)		Tartaric acid	
Glucose			
Methyl alcohol			
Pitch			
Shellac			
Sodium benzoate			
Turpentine			
Zinc oxide			

Cablegram

NEW YORK, October 18.—Business is fair. Antipyrine has advanced \$2.35 per lb., and acetanilide to 35 c. Mandrake root is dearer at 17 c. Peppermint oil has declined 5 c. to \$2.75. Mexican sarsaparilla is cheaper at 26 c., likewise hydrastis (golden seal) at \$3.50, and round buchu at 90 c. per lb. Hexamine is lower at 87½ c. per lb.

Crude Drugs, etc.

AGAR AGAR remains firm and scarce at 5s. 6d. per lb. for No. 1 on the spot. Arrival business has proved unsatisfactory owing to the fact that when No. 1 quality has been bought on c.i.f. terms, No. 3 (dull brown) has been deliberately shipped and tendered to the buyer, who, by his contract, must accept an allowance by arbitration instead of the goods being "invoiced back." There is evidently a shortage of No. 1 quality at the source as well as on the spot.

ANNATTO SEED is very scarce, the value of good quality being from 4d. to 4½d. per lb.

ANTIMONY.—Business in English regulus is kept in narrow compass by the paucity of supplies, and prices for ordinary brands stand at £27 to £29 10s., while special brands range from £33 15s. to £35. Foreign refined is firmly held, c.i.f. to arrive being worth about £24 10s., although as much as £25 10s. is asked for spot lots. Spot crude is nominally £17 per ton, and for forward shipment it is difficult to get offers.

ASAFETIDA is firm, with sales of good almondy gum at £7 10s. per cwt.; up to £8 10s. is quoted for fine quality.

BALSAM TOLU is steady at 3s. 3d. per lb. on the spot.

BISMUTH.—The metal is firm, current supplies being well absorbed, the price of the "ring" standing at 10s. per lb. A recent report from Russia stated that rather important deposits had been discovered there.

CAMPHOR (CRUDE).—The spot value remains at 3s. 4d. per lb., and for October-December shipment sellers quote 3s. 3d. c.i.f. being firmer.

CAMPHOR (REFINED).—Japanese slabs are steady, with spot parcels offering at 3s. 7d. to 3s. 7½d. per lb., and for October-December shipment 3s. 5d. c.i.f. is quoted; ¼-oz. tablets offer at 4s. 4½d.

CARDAMOMS.—Small sales of decorticated seed from second-hands have been made at 3s. per lb.

CASSIA FISTULA.—West Indian of fair quality is obtainable at about 48s. per cwt.

CHAMOMILES.—Owing to the difficulty of obtaining supplies in Belgium except at higher prices, spot holders ask 425s. for new and 325s. for old flowers.

CHAULMOOGRA OIL is in fair demand, but difficult to get. Importers quote from 3s. 6d. to 4s. per lb. for fine pale genuine quality.

COCHINEAL is cheaper, good silver grain offering at 1s. 9d. to 1s. 10d., and dark grain at 1s. 10d. to 1s. 11d. per lb.

COD-LIVER OIL.—Our Bergen correspondent writes on October 16 that the market is quiet and the price is declining in Norway, with but few sales. However, the price in sterling remains almost unchanged, because the value of the Norwegian krone is rising. The official quotation for non-freezing steam-refined quality is 95s. per barrel c.i.f. London, although it is said that cheaper prices are quoted abroad.

ERGOT has ready sellers at 2s. per lb. for either good Russian or Portuguese on the spot.

GLUCOSE is 6d. per cwt. dearer at 28s. for guaranteed water-white for October-November delivery, duty paid, landed terms.

HEN YOLK is firm, prime quality Chinese offering at 97s. 6d. per cwt. on the spot. To arrive, the sales include October-December shipment at 97s. 6d. c.i.f. Dried yolk has been sold at 8½d., sprayed whole egg is 9d., and native dried whole is 7½d. per lb. Prime Chinese hen albumen is 3s. spot, and November-December shipment is 2s. 11d. per lb. c.i.f.

HYDRASTIS.—Our New York cable reports a decline to \$3.50 per lb. (=15s. 9d.).

LIQUORICE JUICE.—Genuine Italian block can be had at about 98s. per cwt. on the spot.

MAGNESIUM.—There is little doing, and the price of English makers is about 4s. 6d. to 4s. 9d. per lb., but foreign supplies are obtainable at well under this, either for sticks or powder, especially under the present mark exchange.

MERCURY.—Somewhat dull and easier conditions prevail, there being very little demand at the moment, either for the home trade or for export, and this tends to keep prices down. Recent rather frequent arrivals, although not very large, have certainly eased the position, but there is not much stock available. The market has fluctuated at around £12 10s. per bottle on the spot, which on Tuesday was the nearest quotation, although business has apparently been done down to £12 5s. The imports for September amounted to 1,203 bottles, against only 104 bottles same month last year, and the aggregate for the nine months represents 9,392 bottles, compared with 10,717 bottles in the same period of 1921. The fact has to be noted that the re-exports have kept well ahead of incomings, the former for September being 2,746 bottles, with an aggregate for the nine months of 12,524 bottles, against 9,735 bottles in the same months of 1921. The American market is reported firm at \$72 per flask under the new tariff. The imports into London since our last report comprise 22,700 lb. from Italy and 5,040 lb. from Spain.

MENTHOL is firm, with spot sales of Kobayashi-Suzuki at from 32s. to 32s. 6d. per lb. as to quantity. Afloat has been sold at 28s. per lb. c.i.f., and sellers of October-November quote 27s. c.i.f.

PLATINUM.—The market has relapsed into a disorganised state, and seems nominal at a lower level of prices at around £21 per oz. for raw metal, although refined is still called £25 by leading interests. America having bought recently very freely in anticipation of a 30 per cent. import duty, and as the metal was placed on the free list, important resale offers have been made from that country, which chiefly accounts for the unsettlement. Palladium is quoted £11 to £12 per oz.

PODOPHYLLUM ROOT.—Our New York cable reports an advance to 17 cents per lb. (say, 92s. 6d. c.i.f.), and on the spot 102s. 6d. is still quoted.

SARSAPARILLA.—Sales of red native Jamaica have been made up to 2s. per lb. A further consignment is on the way, which it is expected will ease the price.

SENEGA.—Sales from a weak holder's hands have been made recently at slightly below 3s. 7d., but the spot market is now firmer, inasmuch as several sales are reported at this figure; 18 bales have arrived this week.

SHELLAC.—At auction on Tuesday 98 bags offered and sold without reserve at from 282s. 6d. to 285s. per cwt. for fair free reddish TN Orange. Privately the spot market has been steady at 285s. to 290s., but closed firmer on Wednesday at 295s. to 300s.; superfine is 410s. to 470s., RL 1 390s., AC cakey 305s., and GAL 285s. To arrive, TN for October-November shipment in bags has been sold at 270s. c.i.f. Futures are dearer, the sales including chiefly December at from 255s. to 280s. per cwt.

STARCH PRODUCTS.—Japanese farina is dull at 15s. per cwt. on the spot. The value of Dutch farina is 14s. 6d. per cwt. c.i.f. for new crop for December shipment, and the spot value is about 16s. 6d. per cwt. English rice starch crystals are £40, and Continental is £30 per ton on the spot. American maize starch is cheaper at 13s. 7½d. per cwt.

WAX, BEES', is very quiet. Good pale Abyssinian block is £5 5s., Morocco is £5 to £5 10s., and East African £5 to £5 7s. 6d. per cwt. Bleached Calueta £7 10s. per cwt. upwards.

Essential Oils

THE tone in the essential oil markets is better than has been the case for some weeks past. The outstanding feature is an advance in Bourbon geranium oil; the small spot stock soon became reduced to a narrow compass, and the value closes very firm at 26s. per lb. Star anise oil is in much better demand, and on spot and c.i.f. 150 cases have been sold during the week. Citronella oil in several directions is thought likely to go dearer; deliveries require careful watching owing to being shipped below the standard.

The imports and re-exports of natural essential oils (other than turpentine) into and from the United Kingdom for September 1922, and the nine months ended September 30, compared with the same month of 1920 and 1921, were as follows:—

	1920.	1921.	1922.
September imports (lb.) ...	159,344	167,640	409,710
" " value... £63,826		£39,956	£90,098
" re-exports (lb.) ...	67,993	70,005	71,387
" " value... £50,809		£33,916	£20,401
Jan.-Sept. imports (lb.) ...	2,694,534	1,245,751	2,366,422
" " value £1,500,506		£336,195	£607,514
" re-exports (lb.) ...	925,597	459,297	606,282
" " value... £643,948		£212,820	£269,538

ANISE (STAR).—"Red Ship"—a fair quantity has changed hands on the spot at 2s. 2d.; for arrival, 100 cases have been done at 2s., c.i.f., and further buyers, but sellers now want 2s. 0½d., c.i.f. for October to December shipment.

BERGAMOT is quoted at 13s. 6d. to 14s. per lb. on the spot.

CAJUPUT is slightly easier at 3s. 10½d. per lb.

CAMPHOR.—A parcel consisting of five tons of white essential oil is offered in one line at 75s. per cwt., single

7-cwt. drums are quoted at 80s., and in tins and cases 85s.

CASSIA is again becoming scarce, 80 to 85 per cent. c.a. is quoted on the spot at 6s.; there do not appear to be any c.i.f. offers in, possibly orders for 25-case lots might be put through at 5s. 6d., c.i.f.

CITRONELLA.—The possibility of an important increase in the price has been mooted in several directions, the reason being given that recent orders have greatly reduced stocks in Ceylon; we understand some spot has been sold at 2s. 2d. and 2s. 2½d. A parcel of five tons in one lot now afloat is offered at 2s. 1d., c.i.f. Some trouble regarding the quality of more than one lot recently shipped has been experienced, and one parcel was invoiced back. A good business has been done in Java description at 2s. 10d. on the spot.

CLOVE.—English distillers are quoting 10s. to 10s. 6d. per lb. Dealers have done business at 9s. 9d. Of Mysore distillate, all spot has been cleared; to arrive in about a month, 9s. 4½d. per lb. is quoted.

EUCALYPTUS.—The spot market is slowly recovering from prices not warranted by the cost of importing the oil, and recent c.i.f. offers are much above the prices at present ruling here, the general opinion is now that an improvement will soon set in: 70 to 75 per cent. cineol is quoted at 1s. 6d., and 75 to 80 per cent. at 1s. 7d. per lb.

GERANIUM.—Quiet spot buying on reports of orders being received direct, from New York, soon showed little stock here, and the price from being firmer—as mentioned in our last issue—has increased considerably, business being done at 23s. and 24s., and a limited quantity can now be had at 26s. per lb. for Bourbon. The recent increase in the price is undoubtedly due to orders from New York. We understand that some bids for one or two large parcels were recently made and refused.

LAVERDER.—The arrivals comprise 71 cases from France.

LEMON is in slightly better demand on the spot, the best brands being quoted at 2s. 8d. to 2s. 10d., recent offers give the c.i.f. price as 2s. 6d.

LIME.—For good white distilled quality the market seems almost bare; there appears to be only a limited quantity offering at 2s. 2d. Of off-colour, there is a parcel to be had at 2s. per lb.

MINT.—Japanese dementholised has been sold at 7s. 6d. per lb. on the spot; a parcel of Kobayashi-Suzuki afloat is quoted at 6s. 9d., c.i.f. for October to December shipment; the "J.M." brand is quoted at 6s. 4½d.; c.i.f.

PEPPERMINT.—Pure American so-called Wayne County is now offered at the more interesting price of 13s. to 13s. 6d. per lb. on the spot.

SASSAFRAS.—Genuine natural American heavy gravity oil is quoted cheaply at 4s. 10½d. per lb.

Seeds, Spices, etc.

CLOVES.—The first supplies of the new Zanzibar crop, which are due within the next two weeks, are badly wanted. Of recent months a considerable speculative business has been done in the new crop, which, as already reported, is a large one. This week there have been sellers of October-December and December-February shipments at 6½d. to 6¾d. per lb. c.i.f. Small spot sales have been made at 1s. 4½d. per lb. The week's statistics show landings of 100 and deliveries of 186 bales; the stock is 618 bales, against 2,399 bales in 1921 and 11,631 bales in 1920.

COCONUT (DESICCATED) is quiet, with sellers of fine at 34s. 6d. and medium Ceylon at 35s. per cwt. on the spot. To arrive, sellers quote October-November and November-December shipment is 34s. 6d. c.i.f.

GINGER is quiet. Washed rough Cochin is quoted at 55s., and slightly wormy to wormy at from 50s. to 42s. 6d. Jamaica is 170s. to 180s. for small and 200s. for bold. Japanese is 44s., and African 34s. to 35s. in Liverpool.

PEPPER has been steady. Black Singapore on the spot is still quoted at 3¾d. per lb., and for October-December and November-January shipments the value is 3½ per lb. c.i.f. Fair Tellicherry is 4¾d. on the spot, Aleppy 4½d., and Lampong 4½d. on the spot. Tellicherry to arrive is

41s. c.i.f., and Aleppy to arrive 40s. c.i.f. White Muntok is unchanged, with sellers at 6d. to 6½d. per lb. on the spot. To arrive, November-January and December-February shipment has been sold at 5½d. and January-March at 6d. c.i.f. White Singapore is 5¾d. on the spot and 5½d. c.i.f., d.w., for October-December shipment.

PIMENTO is firm, with spot offering at 2½d. per lb., and to arrive 17s. 6d. per cwt. c.i.f. is quoted. The week's deliveries were 482 bags, leaving a stock of 8,773 bags, against 26,092 bags in 1921 and 39,572 bags in 1920.

SEEDS.—The following are current spot quotations: Spanish ANISE is unaltered at 75s. to 80s. per cwt., and Russian 71s. CANARY SEED is quoted at 90s. per qr. for Mazagan, and 80s. for Larache, other grades being unchanged. Dutch CARAWAY SEED is dearer at 97s. 6d., and Morocco is 80s. CORIANDER SEED is obtainable at 50s. per cwt., slightly wormy at 38s. 6d., and wormy at 24s. to 30s. Maltese CUMIN SEED is 125s. per cwt., and Morocco is unobtainable. DILL SEED is 22s. 6d. to 24s., and FENNEL SEED is 57s. 6d. Sound FENUGREEK SEED is 22s. 6d. Manchurian HEMP SEED is 14s. 3d., Morocco LINSÉED 23s., and English MUSTARD SEED is unchanged at 30s. to 35s. per cwt.

Pharmaceutical Chemicals, etc.

THE position in Germany appears to be having the effect of holding the spot market up quite well in a number of products. Benzoates are at higher rates this week on spot, and seem likely to go still dearer. Otherwise there is little change to record. Business has been moderate and rather spasmodic. It is reported that chemical export licences are difficult to get in Germany unless the price is satisfactory, and one which will enable the makers to replace at. Gallic acid is to be restored to the key list.

ACETANILIDE holds quite steady round about 1s. 4d. per lb., according to quantity.

AMIDOPYRIN remains neglected, with quotations at 16s. and sellers at slightly less.

AMMON. ICHTHYOSULPHONATE.—Japanese can be had at from 1s. 10d. to 2s. per lb. on the spot.

AMMONIUM BENZOATE, as reported last week, has advanced on spot, and most holders are unwilling to accept less than 4s. 8d. per lb., with a possibility of further advance.

ASPIRIN continues active, with spot sellers finding little difficulty in obtaining their rates of about 2s. 9d. to 2s. 10d. per lb., and even more for finest quality.

BARBITONE remains flat, with sellers offering at 9s. per lb.

BENZALDEHYDE (.03) is now steady at 3s. per lb., but is in no great demand.

BENZOIC ACID is firmer this week. Spot sellers are asking up to 1s. 8d. per lb., but buyers are scarce at this rate. Continental prices are firm.

BENZONAPHTHOL continues to be offered at 5s. on an uninterested market.

BETANAPHTHOL.—Resublimed is quoted at 1s. 10d. per lb., but there does not appear to be any demand.

BROMIDES.—The spot position is as last reported. The demand during the past week has been small and holders' prices seem to vary to a big extent. Ammonium from 9½d. to 10d.; potassium, crystals and granular, 7½d. to 8d.; sodium, crystals and granular, 7½d. to 8d. per lb.

CAFFEINE.—Pure is selling from second hands 13s. 6d. to 14s. per lb. for imported, and doubtless this competition would be met by home producers.

CALCIUM LACTATE is well maintained in the region of 2s. to 2s. 3d. per lb., with sales limited.

CHLORAL HYDRATE.—Duty paid on spot is now steady at the lower figure of 4s. 4d. per lb., and has been in fair demand.

CITRIC ACID.—"The situation is unchanged on the week," is the report to hand from spot dealers. Although business, as is usual at this time of the year, is slow, there is no inclination to continue to cut spot prices, which remain at about 1s. 11d. to 2s. per lb. A new Italian maker, whose product will be on the market during the closing weeks of the present year, is offering for January to

March shipment at 1s. 11d. per lb. c.i.f. London or Liverpool, less 5 per cent.

COCAINE.—Hydrochloride is selling at 13s. 9d. per oz. on the spot.

CREOSOTE.—B.P. is maintained on a slow market at about 2s. 6d. per lb.

CREOSOTE CARBONATE remains on quotation at 10s. per lb., but very little is being sold at that figure.

GALLIC ACID.—Inquiry for any parcels on spot continues, but holders are in no hurry to clear, and persist in asking higher rates, from 3s. to 3s. 3d. being quoted for pure cryst. We understand that the Referee has given his decision to the effect that gallic acid must be restored to the Board of Trade list of substances on which the 33½ per cent. duty has to be paid.

GUAIACOL CARBONATE seems steadier, but slow of sale, at about 7s. 9d. to 8s. 3d. per lb.

HEXAMINE is a better market, with prices slightly firmer at 2s. 8d. to 2s. 11d. per lb. The German makers quote 2s. 1d. per lb. f.o.b. Hamburg.

HYDROQUINONE remains dull, with spot dragging in the region of 3s. 6d. to 3s. 9d. per lb., according to quantity.

LACTIC ACID.—B.P. s.g. 1.21 is offered at 3s. per lb. in bottles and 2s. 9d. in carboys.

METHYL SALICYLATE holds steady at 2s. 2d. per lb., with some little activity.

METHYL SULPHONAL continues slack, with quotations in the region of 15s. per lb.

MILK SUGAR is steady with business passing at from 100s. to 105s. per cwt. for B.P. powder, according to buyer and quantity.

PARAFORMALDEHYDE meets with but small demand; offers still vary from 2s. 7d. to 3s. per lb.

PARALDEHYDE seems a shade firmer, at 1s 3½d. to 1s. 6d. per lb.

PHENACETIN has recovered last week's decline, and is now steady at 4s. 9d. to 5s. per lb.

PHENAZONE holds at 7s. 3d. per lb., but there has not been much doing of late.

PHENOPHTHALEIN has a firmer tendency with spot sales at 4s. 6d. per lb.

POTASSIUM PERMANGANATE is a good market, and spot rates from dealers are round about 8d. per lb., and slightly less for large quantities.

POTASSIUM SULPHOGUAIACOLATE is lifeless and values nominal.

RESORCIN is uncalled for at present, with quotations nominally at 6s. to 7s. per lb.

SALICYLIC ACID remains steady at 1s. 4d. per lb., and slightly less for big lots.

SALOL is now steady at last week's cheaper rate of 2s. per lb. for cryst.

SANTONIN.—Prices remain firm, varying from about £81 up to £85 per kilo, according to quantity, the latter price being for one kilo lots.

SODIUM BENZOATE has already advanced to 1s. 9d. per lb. on spot, and at that rate holders are in no hurry to sell. German makers quote 1s. 9d. f.o.b. Hamburg, to which the 33½ per cent. duty must be added.

SODIUM DIETHYLBARBITURATE remains flat, with quoted rates nominal at about 17s. per lb.

SODIUM SALICYLATE.—This market has eased off lately, but now seems fairly steady at the following rates: Powder, 1s. 10d. to 2s.; crystals, 1s. 10d. to 2s., up to 2s. 2d. for extra large flake.

TANNIC ACID.—B.P. Leviss is unaltered, on spot at 3s. 3d. per lb.

TARTARIC ACID.—There is little change to report. Demand is small and the position still weak on spot at 1s. 3d. to 1s. 3½d. per lb., less 5 per cent.

TERPENE HYDRATE is steady at 2s. per lb. on a quiet market.

THYMOL varies from 18s. 6d. up to 21s. per lb., but any sales would be at less.

VANILLIN varies from 28s. to 30s. per lb. according to quantity.

Industrial Chemicals, etc.

London, Wednesday, October 18.

THE outstanding feature during the past week has been acetone, which continues to advance, with supplies on spot scarce. Acetic acid is also a good market. Salt-cake is in demand, but there is very little available. Formaldehyde is dearer.

ACETIC ACID.—Although slightly cheaper rates are now quoted on spot for 80 per cent., the position is very firm on account of the firmness of the American market, and it would not be surprising to see dearer rates on spot. 80 per cent. technical, £40; 80 per cent. pure, £43; 98 per cent. glacial, £65 per ton, ex wharf, London, in casks and demijohns.

ACETONE.—There is practically no British Government specification available on spot, and the market stands very firm between £120 and £130 per ton, with indications of still higher prices to come.

ALUM is dull, with spot quoted at £13 to £13 10s. per ton for lump in bags.

AMMONIA (ANHYDROUS) is a shade easier on a flat market; 99.95 per cent. is quoted at about 1s. 7½d. per lb.

AMMONIUM SULPHATE.—The tendency has been much firmer as regards export business, current f.o.b. terms now ranging from about £18 to £19, which is thus substantially above the regulated rates current for the home trade. The present very light production is easily absorbed.

ARSENIC.—No doubt owing to the high rates current there has been extremely little buying of white Cornish, but some few lots of foreign have changed hands at cheaper rates; the former is quoted on spot at about £46 10s. per ton.

BARIUM CHLORIDE (90 to 100 per cent.) is unchanged and on offer on spot with little demand: £20 and upwards per ton.

COPPER-SULPHATE is very dull in the absence of any improvement in export demand, and competition is keen. Current quotations are at round £26 10s. per ton for casks, f.o.b. Liverpool, less 5 per cent. With the cost of bar-copper well maintained and working costs keeping rather high, makers are hardly able to make further concessions. The September exports amounted to 554 tons, making a total of 37,802 tons for nine months, compared with only 24,362 tons in the same period last year.

CREAM OF TARTAR is meeting with only a very restricted demand, and prices are cheaper at about 104s. to 105s. per cwt.; to arrive 100s. c.i.f. is quoted for ton-lots.

EPSOM SALTS are slow, with commercial quality in bags easy at £6 5s. per ton.

FORMALDEHYDE has advanced to £70 per ton, and is now firm, with a further advance expected.

GLAUBER'S SALT remains quiet on spot at £5 per ton in bags.

LEAD PRODUCTS.—Dealers in imported continue to quote at unchanged rates, with business rather slow. Red lead £32, and white £35 10s., both c.i.f. London.

LITHARGE meets with small demand from dealers, whose quotations are unchanged at £32 per ton, c.i.f. London.

LITHOPONE.—There has been occasional demand for imported, which is quoted in the region of £22 per ton, c.i.f. London.

OXALIC ACID is now steady at last week's cheaper price of 7d. per lb., but is still rather quiet.

POTASH CAUSTIC (88 to 92 per cent.) on the spot is slow of sale at £29 to £29 10s. per ton.

POTASSIUM BICHRONATE holds well, and has been in better demand at about 6½d. per lb.

POTASSIUM CARBONATE remains slack, with dealers offering 96 to 98 per cent. in the region of 32s. 6d. per cwt.

POTASSIUM CHLORATE seems a little steadier at 4½d. to 4½d. per lb.

POTASSIUM PRUSSATE stands firm: yellow, on spot, 1s. 6d.; red, 4s. 3d. to 4s. 6d. per lb. There has been good business in the former.

SAL AMMONIAC.—Dealers have made a further slight reduction in their prices for spot, but still find business slow: dog-tooth crystals, 52s.; medium-sized crystals, 46s. 6d.; fine white crystals, 31s. 6d.

SALTCAKE is as last reported, with makers all sold out and good inquiries have to be refused: nominal value £4 10s. per ton.

SODA ASH (58 per cent. light alkali) is dull on spot. Dealers quote at £9 London and £8 5s. Manchester. Makers quote to domestic consumers on contract at about £7 17s. 6d. per ton. Makers' prices for export vary according to destination.

SODA, CAUSTIC, holds quite steady at the recently reduced rates of: 70 to 72 per cent., £19 10s.; 76 to 77 per cent., £21 10s. per ton, ex wharf shipping port, but there is nothing like a good demand. British makers' prices for home trade only are: 70 to 72 per cent., £20 5s.; 76 to 77 per cent., £22 5s. per ton. American is quoted c.i.f. chief Continental ports at about £19 10s. per ton.

SODIUM ACETATE is a shade easier at about £23 per ton on spot, with little doing.

SODIUM BICARBONATE from British makers for home trade only is unchanged at £10 10s. per ton, in bags, delivered. Spot parcels are available at about the same price.

SODIUM CHLORATE has been a better market and stands steady at about 3½d. to 3½d. per lb.

SODIUM HYPOSULPHITE is meeting with a fair demand on spot, with imported pea crystals packed in 1-cwt. kegs selling at about £17 to £17 10s. per ton.

SODIUM NITRATE remains dull and easy at about £13 per ton for 96 per cent. material.

SODIUM PRUSSATE stands very firm and is in brisk demand in the region of 11½d. per lb.

SODIUM SULPHIDE.—The price of 60 to 65 per cent. concentrated has been reduced to £18 10s. per ton, in casks; 60 to 62 per cent. solid is unchanged on a dull market at £18 per ton.

ZINC OXIDE.—B.P. makes are £1 per ton higher at from £45 to £50 per ton according to quantity.

COAL TAR PRODUCTS, ETC.—Pitch has now reached a very high rate and seems likely to still further in that direction. Pure methyl alcohol is also advancing on a strong market. Carbolic acid is a shade cheaper. PITCH is now very firm at 105s. per ton, and is unlikely to stop at that price. PURE METHYL ALCOHOL, in consequence of advances in America, has firmed up on spot to £80 per ton. CREOSOTE OIL is very steady at 6½d. to 6½d. per lb. CARBOLIC ACID crystals has eased off a point to about 6½d. per lb., in large bulk packing, with the market dull. PYRIDINE is unchanged on a quiet market at 5s. 9d. per gallon. HEXAMETHYLENE is steady but quiet at 2s. 10d. per gallon. NAPHTHALENE is steady with the demand small at £17 per ton. Crude, £4 to £7; crystals, £15; powder, £16; balls, £24; candles, £34; tablets, £34 per ton, packages free.

Fixed Oils, etc.

AN all-round improvement in the volume of business done is reported, and prices of a number of products are firmer. Linseed oil and turpentine hold firm. Palm oil has been fairly active. Cottonseed oil is firm at dearer rates. Rape oil is a shade easier again. **ACID OILS.**—There has been a big improvement in demand, and prices have advanced all round: coconut, 33s.; palm-kernel, 33s.; groundnut, 34s. **CASTOR OIL.**—At unchanged rates this market seems a little firmer: pharmaceutical, 55s.; first pressings, 50s.; second pressings, 48s., ex mills Hull, in not less than one-ton lots. **COCONUT OIL.**—There has been no improvement in demand; prices are about level on the week: deodorised, 44s.; Ceylon, 37s.; Cochin, 44s. **COTTONSEED OIL.**—Prices have advanced about 2s. all round, and the market closes firm: deodorised, 44s.; common edible, 41s.; soapmaking, 39s.; crude, 36s. **GROUNDNUT OIL.**—At level rates on the week this market is very steady: deodorised, 53s.; crude Oriental, 47s. **LINSEED OIL.**—This market has been maintained, and at the close, despite the lack of good business, there was quite a firm tone: raw, naked, on spot, 39s.; October, 38s.; November-December,

38s.; January-April, 34s.; Hull, on spot, 39s.; October, 38s.; November-December, 37s. 9d.; January-April, 34s. 9d. **PALM-KERNEL OIL.**—A quiet tone prevails, but spot rates are so far maintained: deodorised, 41s.; crude, 35s. **PALM OIL** is now quite steady, with Lagos unchanged at 33s.; softs have improved a little to 31s. 6d., and hards are better at 32s. 6d. **RAPE OIL** in slight request, and prices are easier again: refined, 45s.; crude, 43s. **SOYA-BEAN OIL.**—While deodorised has weakened to about 41s. 6d., crude has hardened to about 36s., with the market quiet. **TURPENTINE.**—The continued strong reports from across the Atlantic, where stocks this season have been eaten into on a larger scale than had been anticipated, and are now comparatively small, have had an important bearing on the market at this end, although the trade demand has not been very brisk. There has been more activity in forward positions, which have fully shared in the considerable advance recorded. On spot, market closes at 123s. 6d. (an advance of 16s. on the week); November-December, 123s. 9d.; January-April, 124s. 9d.

LUBRICATING, MINERAL, BURNING OILS, ETC.—A scarcity of business is the general complaint, but so far spot prices are maintained, although they are not at all firm. **BENZOL** is maintained at last week's level of 1s. 10d. per gallon, f.o.r. makers' works, in buyers' packages. **BURNING OIL.**—Crude No. 3, 8½d.; No. 2, 8d. per gallon, barrels free; market is slow, with rates unchanged. **FUEL OIL** is as last reported: 905 to 910 gravity, £4 2s. 6d. per ton; 950 gravity, £3 5s. per ton, ex tank. **NAPHTHA** holds well, but is still rather slow at 1s. 9½d. per gallon. **SOLVENT NAPHTHAS.**—A much steadier tone prevails, and business has improved: 90 to 160, 1s. 9d. per gallon; heavy, 90 to 190, 1s. 6d. per gallon, drums extra. **PARAFFIN WAX and SCALE.**—The market is fairly steady and values are well maintained; business has been somewhat a little better. Scale, 122° to 124° F., on spot, 1½d., and 1½d. c.i.f.; yellow, 1½d. c.i.f. for prompt shipment. **PETROLEUM OILS.**—There is no change. American standard white is 1s. 2d., and water white 1s. 3d. per gallon. **PETROLEUM JELLIES.**—There is no improvement in business to record, but prices are so far unchanged. Snow white, £64; white B.P., £61 10s.; yellow, from £24 to £43; red vet, £19; ruby red, £21; dark stiff green, £18 10s., ex wharf, London. **SPECIAL OIL**, for Diesels and motors, 10d. per gallon, barrels free. **WHITE OILS.**—There is no change in this market. Special No. 1, £43; No. 1, £39 10s.; No. 1A half-white, £35, drums free; No. 2 half-white, £27, barrels free, all ex wharf, London. **LUBRICATING OILS** show no change on the week; business has been decidedly slow. Pales, £12 10s. to £24 10s.; reds, £15 to £30; dark cylinders, £15 to £35; filtered cylinders, £20 to £37; blacks, £8 to £19, ex wharf, London, less 2½ per cent. **SOLUBLE OIL** is steady at £21.

Italian Olive Oil

The production of olive oil in Italy averaged 1,884,000 hectolitres (49,771,000 gallons) a year for the 1909-1920 period, according to figures issued by the Italian Ministry of Agriculture. The maximum output in one year was 2,890,000 hectolitres (76,347,000 gallons) in 1918, and the minimum was 958,000 hectolitres (25,308,000 gallons) in 1912. These figures refer only to the product of the first and second pressings. The sulphur oil and washed oil are additional and amount to about 500,000 hectolitres (13,209,000 gallons) annually. The average yearly crop of olives for the 12-year period was 1,140,600 metric tons.

Zanzibar Cloves

The report on the trade of Zanzibar for 1921 says that in order to encourage planting of clove trees, the Government has established nurseries at Machui and at Selem in the Mkokotoni district, containing respectively 18,000 and 20,000 plants. These seedlings will be ready for planting out in the spring of 1922, and are to be distributed free to plantation owners. For some years plantation owners in Pemba Island have received assistance from the Government by means of loans to enable them to gather their cloves. A sum of Rs. 40,000 is set aside for this purpose and loans have been made free of interest for periods of three months. The practice has proved entirely success-

ful, and there has been so little difficulty in securing a refund of these loans that it is now contemplated extending the system to Zanzibar and increasing considerably the amount of money to be distributed. This has been necessary owing to the higher cost of clove picking, which has almost doubled within the last ten years. It is a significant fact worthy of attention that although there has been practically no planting of cloves for the last 20 years, during which period a large number of trees have died, particularly in Pemba, the production within the Protectorate has not shown any diminution. This can only be attributed to better picking, and is no doubt brought about by the increased number of local natives and mainlanders who have become owners of small plantations within recent years. The conditions of the plantations of the large Arab owners has not changed. Owing to increased immigration from the mainland the local rates of labour, except for clove picking, have fallen considerably; and there is sufficient labour for purposes of cultivation. The ruling price of cloves during the year 1921 was on an average better than the previous year; the maximum price being Rs. 32.56 and the minimum price Rs. 13.50 per frasila; and for Pemba cloves the maximum price during the year was Rs. 31.56 per frasila and the minimum Rs. 10.59.

French Chemical Market

Paris, October 11,

ALTHOUGH the position of the chemical market is not essentially changed, there has been a fair number of fluctuations either way. The slackening off of business noted in the last few weeks continues, owing to political developments in the Near East. Quotations for certain heavy products have been on the weak side, with the exception of zinc, lead, and barium products. The marketing of pharmaceutical products seems as difficult as ever in view of keen foreign competition, and home makers' terms have been, if anything, again easier, while affording no margin of profit, but proprietary articles have still a fair outlet. As regards painters' material, no little difficulty is being experienced in doing business in white lead and similar products, although there is a good deal of foreign offering. There has been a renewed sharp advance in turpentine, while resin and gums have been a good market under an active demand at stiffer rates. There is a steady improvement in the demand from glass makers of all kinds, and the boron products have appreciably hardened, whereas potash products, on the other hand, have eased somewhat. The outlet for chemicals in the engineering trades, however, is anything but good, and quotations in that direction have shown weakness. The following quotations are about representative of the market:—

Kilo (except where otherwise stated).	Kilo (except where otherwise stated).
Ammonium carb. Engl., per 100 kilos .. 220 to 230 fr.	Morphine hydrochlor. .. 710 to 720 fr.
Antimony, white oxide pulv. .. 1.50 to 1.60 fr.	Nickel oxide .. 12 to 15 fr.
Antipyrine .. 520m.	Nitric acid, ord. .. 98 to 120 fr.
Arsenic, white pulv. .. 2.60 to 2.75 fr.	Phenacetin .. 550m.
Benzonaphthol (lb.) .. 6s.	Phenolphthalein .. 40m.
Bismuth salicylate .. 57 fr.	Potass. bromide .. 8 to 8.50 fr.
Bismuth sub-nitrate .. 60 to 65 fr.	Potass. caustic, 88-92°, Engl., a ton .. £32 to £33
Boric acid cryst. .. 3.65 to 3.68 fr.	Potass. chlor. .. 2.35 to 2.40 fr.
Caffeine (lb.) .. 15s. to 16s.	Potass. iodide .. 90 to 95 fr.
Chloral hydrate .. 12.50 fr.	Potass. nitrate (per 100 kilos) .. 140 to 145 fr.
Chloroform .. 10.50 to 11 fr.	Potass. permang. .. 7 to 8 fr.
Citric acid .. 12.50 fr.	Pyramidon .. 1.850m.
Cocaine hydrochlor. .. 1,350 to 1,400 fr.	Quinine sulphate .. 3.30 to 3.40 fr.
Codeine .. 1,300 to 1,400 fr.	Salicylic acid .. 165m.
Copper sulphate (per 100 kilos) .. 135 to 142 fr.	Sodium arsen. .. 3 to 3.25 fr.
Creosote (lb.) .. 3s.	Sodium bicarb. .. 0.65 to 0.70 fr.
Digitalin cryst. (gram) .. 125 fr.	Sodium borate .. 2.20 fr.
Formic acid, chem. pure .. 3.50 to 4 fr.	Sodium sulphate .. 0.20 to 0.22 fr.
Glycerophosphate, lime (lb.) .. 7s. to 8s.	Sodium benzoate .. 55m. to 60m.
Glycerin .. 4 to 5 fr.	Sodium cacodylate .. 130 fr.
Guaiacol cryst. .. 65 fr.	Sodium methylarsenate .. 6,000 fr.
Iodoform .. 140 to 145 fr.	Sodium salicylate .. 180m.
Lithoponc, red seal .. 1.50 to 1.60 fr.	Sodium phosphate .. 1.50 to 2 fr.
Magnes. sulphate .. 1.20 to 1.25 fr.	Solvent, naphtha .. 1.45 to 1.50 fr.
Methyl salicylate .. (lb.) .. 2s.	Sulphuric acid ord. (per 100 kilos) .. 15 to 26 fr.
	Sulphuric acid, pure (per 100 kilos) .. 150 to 160 fr.
	Tartaric acid, pvd. cryst. .. 8 to 10 fr.



Letters for this section should be written on one side of the paper only. The writer may adopt an assumed name for purposes of publication, but he must in all cases furnish his real name and address to the Editor.

Higher Education for Chemists

SIR,—The difficulty that a pharmacist has in appreciating Dr. Waring's address at the opening of the School of Pharmacy is that the subject was attacked more from an educational point of view, whereas in the case of the majority of students who enter pharmacy the education is a step towards earning a living, and not an end in itself. It is doubtless true that higher education is an advance in the right direction, but even Dr. Waring admitted that all the candidates were not equal to the most advanced course of theoretical study, although they might be quite capable from a practical side, and this applies very largely to the elementary system of education at present adopted in this country. A large number of boys and girls are educated beyond their capacity, and yet do not become competent enough to fill a higher field. This fact probably is responsible for a good deal of the unrest at present so prominent in industrial districts. What is aimed at by the pharmaceutical education of the present day, or what is likely to be aimed at in the future, is apparently something quite different to what I understood it when I studied for the old Minor examination. In those days pharmacy was considered to be the art of dispensing, the translation of the medical man's prescriptions into the most suitable form for use by the patient, and the whole course of study was directed to this end, the principal subjects being the practical dispensing, theoretical pharmacy and prescription reading, whilst the chemistry, botany and materia medica were approached from a point which led up to the preparation of medicaments either from organic or inorganic sources. Now the move seems to be to ignore the dispensing and to render the study purely scientific, and to evolve a graduate more fitted for research work, or for clinical work, than for the original work of pharmacy. It is true that when the pharmacist received his diploma he found it very often an empty honour, and, although fully qualified to take over a dispensing practice, he looked in vain for the work, but that was the fault of administration, and not of education, and for this reason I think it is a fundamental mistake to aim at what is really somebody else's target instead of trying to secure the right to our own. To those of us who are already in business the position would be humorous were it not so serious. Before the Insurance Act came into force there was little or nothing to differentiate the pharmacy from any other shop in the street; it is open to anyone to establish a business for the sale of proprietaries, photographic materials, toilet articles, and even drugs, provided he leaves out the few statutory poisons of which the demand is really negligible, and he will sink or swim according to his business capabilities; in many cases he will succeed better than the qualified man, for he puts his capital and time into his business instead of into his qualification. Even now, when the National Insurance Act has been in force for some years, and must have educated the public to a certain extent to the fact that a pharmacist is a person qualified for dispensing medicines, I am sure that the majority of men in business, if they had to choose between giving up Insurance dispensing or some other side line they have developed, would give up the dispensing on the spot, which is a *reductio ad absurdum*. If, therefore, the study of pharmacy is to be prefaced by a matriculation examination, and to be ended by a University degree, the Pharmaceutical Society as at present constituted will certainly be paving the way to its own funeral. The parent who can afford to enter his son for such a curriculum would expect to get a better return for his money than is afforded to the present exponents of pharmacy, and if, on the other

hand, he wishes them to take up a scientific career he would for the same outlay or very little more enter them for a University course in the first instance, with a chance of entering one of the better protected professions.—Yours truly,

AN OLD STUDENT (14/10).

Sale of Packed Proprieties

SIR,—Your correspondents, "Twice Shy" and "Regnoth" (*C. & D.*, October 7, p. 516, and October 14, p. 548), have touched upon a subject which must be one of irritation and annoyance to any chemist who has been a victim of this sudden change in the policy of certain firms relating to packed proprietaries. It is, however, a pleasure to be able to say that all firms have not adopted the same attitude. There is a well-known house in Lancashire with a "window way" of selling packed pharmaceutical specialities, and a very clearly defined policy as regards the reservation of lines. My pharmacies are in a town swarming with chemists, and I have not come across any clashing at all. Since commencing business I have been buying extensively from this firm, and have found that, although I have now four shops in the town, they have successfully avoided any friction arising. So sure am I of the soundness of their principles that I have even gone so far as to recommend my competitors to buy from them. I am also assured that the proved and tried policy of this Lancashire firm is not to be altered. I have no interest whatever in this firm except that of a well-satisfied customer.—Yours faithfully,

Blackpool.

J. F. BLACKHURST.

Choosing a Profession

SIR,—The difficulty of choosing a profession for the coming youth is largely caused by the fact that most boys and girls have no special predilection for any particular calling. In the case which "Xrayser II." quotes (*C. & D.*, October 7, p. 501) the boy at a fairly early age showed his ability in one subject and only required the opportunity to develop it; similarly another boy will always be tinkering with mechanical toys and will make a good engineer. Personally, I attended a good public school to the age of seventeen, and when I left, had no particular idea as to what I should like to be, and I was entered into pharmacy largely, I believe, because my parents had a relative who possessed a good dispensing business, and who was always looked on as a successful exponent of a nice clean profession. Thanks to what "Xrayser II." terms a good all-round education, I managed to master my subject sufficiently well to take the qualification without more trouble than most students, and without being either a genius or an expert. I have developed a business which yields me a reasonable living. But at the same time, if I could start over again I do not know that I should choose pharmacy as my calling; for example, I dislike the dirty greasy bottles handed to one for such items as camphorated oil or turps. I dislike the constant haggling over halfpennies, both in selling to customers and in buying from wholesalers, and yet it must be done if one is to show a profit. I dislike the menial work, the dusting and cleaning, the fetching and carrying inseparable from a small pharmacist's daily work, and all such like petty details. Yet I suppose that if it were my natural calling, I should revel in this kind of thing and be unhappy when away from it. I often reflect if I were not a pharmacist what would I have been? Candidly, I do not know. Whenever I have taken up a subject, such as optics, photography, languages, or even manual work as a hobby, I have obtained sufficient proficiency to fulfil ordinary requirements, not expert perhaps, but enough. So it is with many people, the majority, I think, given sufficient education for a ground-work and possessing average intelligence and application, they can achieve skill at almost any trade to earn a living; but that is very different from being a born exponent of the chosen calling. It is this "averageness," if I may so term it, which renders it so difficult for parents to decide for the best when placing their sons and daughters in the world.—Yours faithfully,

DUBITANTE (7/10).

Legal Queries

C. & J. (3/10).—The tablets not being a pure drug, and being recommended for the cure of an ailment, are liable to medicine-stamp duty.

F. M. C. (5/10).—A registered dentist may not dispense or supply "dangerous" drugs, but may write prescriptions for the purpose of dental treatment.

B. S. (21/9).—The information you ask regarding business names registration is given in detail in *The Chemist and Druggist Diary*, 1922, page 278*.

A. B. (10/10).—No licence is now required for either the sale or purchase of motor spirit, the war-time provisions which regulated this matter having been repealed.

C. F. (26/9).—The label you send would render the Cough Sedative liable to stamp duty, on account of the recommendation in the title for the treatment of an ailment.

W. L. (3/10).—Inhalers are not liable to medicine-stamp duty, but the inhalant (unless it is a single drug), if recommended for the relief or treatment of an ailment, is liable to duty.

J. B. S. (9/9).—The name of a poison has not necessarily to be given on the package containing it. The requirement is the "name of the article," which may be "cough mixture," or such like title.

B. & Co. (6/9).—The labels you submit (Antiseptic and Medicated Pastilles, and Dr. Jones' Lung Tablets) do not involve liability to medicine-stamp duty from the fact that no ailment is mentioned on them.

B. L. (19/9).—The labels you send fulfil the conditions governing the sale by chemists of "known, admitted and approved" remedies, and do not require to be stamped, providing liability is not incurred in other ways.

W. R. (65/34).—You are not entitled to give copies of prescriptions containing "dangerous" drugs, as these may only be written under conditions laid down in the Regulations under the Dangerous Drugs Act.

B. D. (12/9).—It is the recommendation of the balsam of aniseed for coughs ("Stop that Cough") that renders the preparation liable to medicine-stamp duty. It would not be liable if the word "cough" were removed.

W. (25/9).—Chemists not holding methylated-spirit licences are permitted by the Board of Customs and Excise to sell and dispense liniments and lotions prepared with mineralised methylated spirit prescribed by medical men. The preparations must be for external use.

L. N. (4/9).—A pure drug is exempt from medicine-stamp duty. It is advisable to give an indication on the label that the article is a pure drug, so as to save trouble with other retailers. The exemption only applies to medicines sold by qualified chemists or persons holding a medicine licence.

W. B. (16/10) has been assessed to income-tax for the current year at the amount agreed on as last year's income instead of on the average profits of the last three years, and he asks if this is correct. [No; unless the business is one which has not been in existence three years. In the case of a new business, the assessment for the second year is on the whole of the profits of the preceding, the first, business year. For the third year the average of the profits of the first two business years is taken, and thereafter the average of the three preceding years.]

W. A. (13/10) took over a drug and dental business on December 12, 1921, on the representation, which turned out to be incorrect, that the takings were from drugs only, which was the only part of the business he intended to continue. The vendor has disappeared. A demand is now put in for 25s. 6d. income-tax, and upon inquiry "W. A." is informed that this is on account of profits made by his predecessor. He asks whether he is liable to pay this, as he has made no profit since coming into

the business. [We think not. For, although when anyone succeeds to a business he is liable to be assessed in the usual way on the average profits made by his predecessor, the tax being apportioned between them when the succession takes place in the course of a tax year, in this case liability does not arise, either: (1) Because only part of the business was taken over; or (2) there has been a "specific cause" for the falling off in the profits of the business. A claim should be made to have the assessment discharged on these two grounds, the specific cause being the fact that the dental work was discontinued on the predecessors going out of the business. Although the claim on ground (2) ought to be made within three months of the close of the tax year, the authorities will probably not object in this case.]

Lex (12/10) is the tenant of a house, part of which is a shop, part a dwelling-house, under a 14 years' lease, of which a portion of the term is still to run. The lease is the "usual London lease," with covenants by the lessee to pay rent, to keep the premises in repair, and pay the amount of fire insurance premium to the landlord. The insurance policy is taken out on the whole of the premises, including the dwelling-house. On a question of assessment with the inspector of taxes, the inspector refused to allow the amount of the insurance premium, £1 5s., as a trade expense, but maintained that it was rent from which income-tax at 6s. in the £ should be deducted before "Lex" paid it over to the landlord. On the other hand, the landlord refuses to allow the deduction on the premium, and says the premium is not rent, but an "out-of-pocket expense." "Lex" asks what is the legal position. [It depends on the terms of the covenant. If, as is common, the covenant binds the lessee to pay "the further rent of a yearly sum equal to the expenditure by the lessor for keeping on foot the insurance of the demised premises against loss or damage," etc., then the inspector's view is right, and the tenant can regard the premium as rent and make the deduction of income-tax from it, as in the case of the rest of the rent.]

Subscribers' Symposium

For interchange of opinion among "C. & D." readers, and brief notes on business and practical topics, especially new ideas

The Jersey Case

Mr. C. H. M. Parker writes: I much regret to note my name in the "Courts" column of the *C. & D.*, October 14. I wish to point out that the Jersey authorities were quite wrong in their assumption, for I was wilfully "roped" by someone. With regard to local registration, I was quite unaware this was necessary for relief work.

Appreciations

Yours is a jolly good Price List—in fact, it's the best I've seen.—*W. H. J.* (89/13).

One can't do without the *C. & D.*, as there is no other paper to equal it for us "pill pushers."—*J. B. H.* (17/10). This week I have realised my loss in being without such an excellent trade paper as the *C. & D.*—*T. J. D.* (87/28).

By the same post I am sending a cheque for life assurance, and I am not at all sure which is the better investment.—*D. L.* (17/10).

I am heartily in accord with the "Chorus of Praise" which you publish from time to time. The *C. & D.* is indispensable.—*F. G. B.* (79/8).

An Example of Polypharmacy.

The following example was handed over the counter to-day:—

- 1 dram of powdered bark of Alais.
- 20 grains of borax.
- 30 grains of gentian.
- 4 drops of partridge boring.
- 1 dram of sodid extract of dandelion.
- 10 drops of diluted spirits.
- 2 grains of cayenne.
- 4 drops of lassifuse.

C. K. B. (27/9).

Miscellaneous Inquiries

When samples are sent particulars should be supplied to us as to their origin, what they are, what they are used for and how. We do not undertake to analyse and report upon proprietary articles nor to publish supposed formulas for them.

J. R. W. (3/10).—DISINFECTING GLOVES.—The simplest and probably sufficiently effective way of disinfecting the lined doekskin gloves would be to expose them in a closed box to the formaldehyde given off from a vessel containing formalin.

M. D. G. (7/10).—BOOKS FOR POPULAR LECTURES.—Wootton's "Annals of Pharmacy" (C. & D. Office, 10s. 6d.); Martin's "Modern Chemistry and its Wonders," and "Triumphs and Wonders of Modern Chemistry" (Sampson Low & Co., 7s. 6d. each).

F. L. (9/10).—(1) STAINING OAK.—See C. & D., October 14, p. 550. (2) SPECTACLE LENS APPLICATION to prevent condensation of moisture consists of transparent soap. More ambitious formulas are those with sulphonated oil bases which were devised in the United States during the war (C. & D., January 17, 1920, p. 96).

A. E. F. (58/31).—STOPPING RADIATOR LEAKS.—Various substances are added to the water in motor-car radiators with a view of preventing leakage. In the course of a correspondence in the C. & D. some time ago the substances recommended were: (1) Water-glass; (2) pea-flour, $\frac{1}{2}$ lb. to 5 gals. of water; (3) fine oatmeal, a heaped dessert-spoonful added when the water is circulating. The practice is only suited for temporary purposes.

M. B. (16/9).—SHEEP-DIP SOAP.—The cresylic soap sheep dip is one of the type in which resin soap is the basis, the active ingredient being creosote or "dead oil," containing, say, 20 per cent. of carbolic acid. For example, five to ten parts of rosin is melted and one part of stearine or Yorkshire grease added, and then one part of caustic soda lye at 68 degrees Twad. The dead oil, or creosote, is usually incorporated when the soap has cooled.

E. L. (2/10).—The following are the formulas for which you inquire:—

Influenza Mixture P. F. 23.	Neuralgia Mixture P. F. 138.
Potass. bicarb. ... 3ss	Ammon. chlorid. ... 3ij.
Potass. chlorat. ... 3ss	Liq. ammon. acet. ... 3vj.
Potass. n̄trat. ... 3ss	Tr. gelsemii ... 3j.
Vin. ipecac. ... 3j.	Spt. chlorof. ... 3j.
Tr. capsici ... 3j.	Spt. camph. ... 3j.
Inf. chirat. conc ... 3j.	Cocci cact. ... q.s
Aq. chlorof. ... ad 3vj.	Aq. ... ad 3vj.
Mix 3ss.; 4 tis. horis	3ss. pro dosis

Flu (60/37).—The safest powder you can pack as an influenza powder is salicin or sodium salicylate. The drug should be packed in 10-grain powders.

E. W. (25/9).—PAIN-KILLING LINIMENT.—The formula for which you ask is as follows:—

Essential oil of camphor
Rectified oil of turpentine, of each 10 oz.
Oil of sassafras
Methyl salicylate, of each 1 oz.
Colour: A sufficiency.

M. B. (26/9).—(1) "GREASE" LOTION.—It is impossible for us to say definitely what the farmers' grease lotion consists of without seeing a sample. Our experience is that wonderful cures do not necessarily contain exceptional ingredients. A lotion of zinc sulphate, or even alum, has been known to do a lot of good in veterinary work. (2) The neuralgia mixture bearing the label you send would require stamping on account of the recommendation for an ailment. The article is not a "known, admitted and approved" remedy, and so cannot benefit from the chemists' exemption.

J. B. (18/9).—The hardness of the tooth paste in the tubes seems to be near the orifice, the bulk of the paste being in good condition. The remedy we can suggest is to take off the caps of the tubes and invert the tubes in a mixture of glycerin and water for some days in the hope that sufficient of the glycerin will be absorbed to soften the paste near the orifice.

R. W. B. (21/8).—(1) WORM TABLET FOR SHEEP.—We cannot say definitely what is the composition of the worm tablet about which you inquire. There are so many remedies for tape worm that it is difficult to hazard a reply. Most of these require to be followed by a draught. (2) FRUIT PRESERVING.—We do not recommend the use of sulphurous acid, as a taste is apt to be left in the fruit, even after cooking. The correct method is described in the Board of Agriculture leaflet No. 250 (post free from the Board, Whitehall Place, S.W.). (3) The taste of zinc chloride in a mouth wash is difficult to cover, but a sweet agent, such as aq. chlorof., helps matters a little. Peppermint and clove flavours are also recommended.

J. P. B. (12/9).—MARKING INK.—It is difficult to advise in regard to the marking ink, as it would require a number of experiments before one could arrive at the cause of the pink colour that develops on the cotton. The process of making the ink is the usual one followed in the class of ink, in which aniline is oxidised to aniline black. Possibly the use of vanadium chloride in place of copper chloride might be an improvement, but this we cannot say without experiment. Then, again, perhaps an alternative ink might answer, such as that made by diluting asphalt with spirit varnish and turpentine. This may perhaps spread on the cotton, but possibly the incorporation of ivory black would prevent that.

G. H. J. L. (11/10).—The rates we understand that are now being paid for unskilled labour in packing are:—16 years, 12s.; 17 years, 14s.; 18 years, 16s.; 19 years, 18s.; 21 years, 23s. We should not consider 5 per cent. labour costs on gross turnover too low, and providing adequate rates were being paid, we should consider you were getting an excellent yield from your employees. It is much more likely that your costs will be $7\frac{1}{2}$ per cent to $8\frac{1}{2}$ per cent., and many houses exceed this. In any case, we consider that 10 per cent. would be too high for the class of labour to which you refer, as it would cut too deeply into other costs. Seven and a half per cent. is a fairly safe margin, and so long as you do not exceed this there cannot be much wrong. If the turnover can be speeded up it should work for your advantage, as it would indicate more efficient management. Your costs for labour should be calculated on gross sales.

Retrospect of Fifty Years Ago

Reprinted from "The Chemist and Druggist," October 15, 1872

Medical Men as Analysts

The new Adulteration Act provides for the appointment by certain local authorities of "persons possessing competent medical, chemical, and microscopical knowledge, as analysts of all articles of food, drink, and drugs," which require such attention. Instructed by the Pharmaceutical Council, therefore, Messrs. Flux & Co., the solicitors, submitted a question to the Attorney-General, the Solicitor-General, and Mr. Langley. We append both question and answer:—

Question

"Whether the words medical, chemical, and microscopical knowledge in the Act 35 and 36 Vict. cap. 74 must be read and construed to limit the choice of analysts so that only duly qualified medical practitioners can be appointed, or whether the question whether the elected person does possess competent medical, chemical, and microscopical knowledge is not one of fact to be considered by the appointors (subject to the approval of the Secretary of State) without reference to any register of medical practitioners or Pharmaceutical Chemists or Chemists and Druggists or the roll of membership of any body of Microscopists."

Opinion

"We have considered this case and the Acts of Parliament referred to in it, and we are of opinion that the words 'medical, chemical and microscopical knowledge' in the 5th section of the 35 and 36 Vict. cap. 74 are not to be construed so as to limit the choice of Analysts within that section to duly qualified Medical Practitioners only. We are further of opinion that the second branch of the question submitted to us must be answered in the affirmative."

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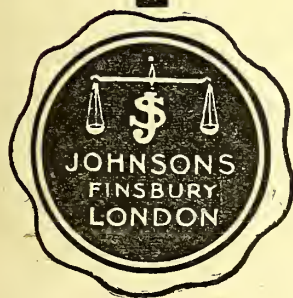
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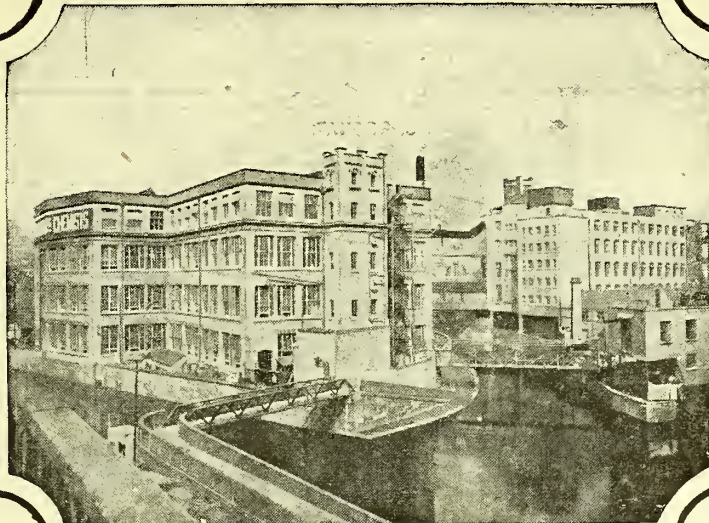
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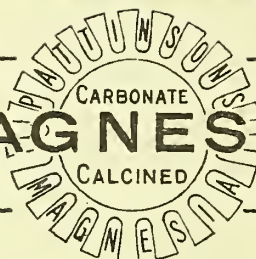
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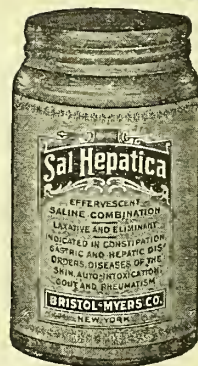
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It does not require purchaser's signature.**Proprietors: J. T. DAVENPORT, Ltd., 117 Union Street, S.E.1.****Pure
White
Turpentine
B.P.****Langley-Smith & Co.**
14/20 St. Mary Axe, London, E.C.3.Telegrams—"Tallowdom London." }
Telephone No.—Avenue 3820.

Enquiries solicited for all Grades of Oil.

SUTTON'S*(A good name is more than riches.)***CLOUDY
AMMONIA**

goes one better than ordinary ammonia in quality—and profit. Recommend it and reap that benefit.

We do not put the label on until the quality is there.

All experienced buyers know that the name of Sutton stands for trustworthiness, uniform high quality, and absolute purity.

Please send for terms:

G.F. SUTTON, SONS & Co.
Osborne Works, Brandon Road,
KING'S CROSS, LONDON, N. 7

HARROGATE TABLET COMPANY'S HELPFUL TALKS to CHEMISTS

- I. Dr. Stork's Worm Cakes.
- II. Health Granules.
- III. RESPINES.

"IF WINTER COMES" and when it does then the pharmacist who is a shrewd business man will see that his stock includes a sufficient quantity of the highest class PINE TABLETS. The name given to an article often helps to sell it, and what more appropriate name could be given to Pine Tablets than

"RESPINES"

since their function is to alleviate and cure all the usual disorders of the respiratory organs by the absorption of pine vapours.

If they are as good as their name, tell your customers so, if not, tell us.

They are packed in most attractive two ounce cartons (retailed at 6d. each) and the profit to the pharmacist is never less than 100 per cent.

Showcards, Cartons and Streamers Supplied.

HARROGATE TABLET CO., LTD.
CHATSWORTH GROVE,
HARROGATE.

Big Offer for Window Displays

Until further notice we are presenting absolutely free, with each display order, one dozen Glycola Shampoo powders for each

- 1 doz. 1/4 bottles of Glycola
- 2 doz. -/8 bottles of Glycola
- 1 doz. -/10½ tins of Health Salts.

Also usual 10% discount off m.w.p. Don't miss this profitable line of business.

CLARK'S GLYCOLA

is one of the best selling toilet preparations on the market. It is always in good demand and carries an excellent margin of profit. Sell it and display it. It will pay you well.



Liquid Paraffin

B.P.

We are the largest importers of Liquid Paraffin in the United Kingdom, and are, therefore, in the best position to maintain supplies of standard quality at competitive prices. Our Liquid Paraffin, bulked and tested by ourselves in our own laboratories, is a brilliant water-white oil (s.g., .890) and is unaffected by the lowest temperature. It conforms strictly to all B.P. requirements, and is of the highest viscosity. Neatly packed in attractive bottles, as shown, or in ordinary white flat or white panelled flat bottles which emphasise the brilliancy of the oil. Full range of script and other reservable labels, on which Chemist's name and address can be printed, will be submitted on request. Samples and prices on application.



PACKED GOODS.

Immediate delivery of artistically packed goods at competitive prices. Send for samples and prices.

Speciality Dept. :
THE ANGLO-AMERICAN
OIL CO., LTD.,
Semprolia Works,
Albert Street,
Camden Town, N.W.1.

Clarke's Blood Mixture & Other Preparations

NOTICE.

Clarke's Blood Mixture and other Preparations.

33 $\frac{1}{3}$ % on cost to our DISTRIBUTORS and FREE CASES.

On and after July 1st, 1922, all orders amounting to gross value (£16 4s.) will be sent out in FREE CASES ; this will be a great advantage to our Customers who order direct, saving Carriage on returned empties, besides supplying Cases Free of Cost. Carriage paid upon orders amounting to £100.

Price List and full particulars sent on receipt of Postcard.

Sole Proprietors:—

THE LINCOLN & MIDLAND COUNTIES DRUG COMPANY, LIMITED
Park Street, LINCOLN.

SYRUP



(ROBERTS)

Recognised by the Medical Profession as

THE BEST TONIC.

Supplied in 8-oz. and 16-oz. Bottles by all the
Wholesale Houses.

Inquiries Invited for
**NEW & RARE
MEDICINES**

of French, Italian and Russian Origin.

ROBERTS & CO.,

76 New Bond Street,
London, W.

5 Rue de la Paix,
Paris.



THE GREAT NERVE FOOD AND FLESH BUILDER.

IRVONA is obtainable from all the usual
wholesale houses, or direct, at the following
prices—3/- size, 27/- per dozen. -

15/- „ 135/- „ „

“IRVOLAX” (the safe aperient).

1/3 size 12/- per doz.

3/- „ (four times the quantity) 27/- „

MOLVENE

(the safe flesh reducer).

3/- packet 29/- per doz.

Terms Net 30 days, subject to usual trade references.
For orders under 27/- in value cash with order.

P. J. WILLIAMS

Chiswell Chambers, 27 Finsbury Street,
LONDON - - E.C.2

All Pharmacists are invited
to apply for the new brochure

CROOKES COLLOSOLS

5th Edition

now issued by the Crookes Laboratories

The volume embodies the latest information on Collosol therapy, and the recent important additions to the Collosol range.

A special chapter on dispensing difficulties renders this work of great assistance to the dispensing chemist.

Telephones :

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Telegrams :

"Colossally Westcent
London."

THE CROOKES LABORATORIES

(British Colloids Ltd.)

22 Chenies Street,

Tottenham Court Road, W.C.1

ORYTONS

Guaranteed Relief
— or **MONEY BACK** ★



**For Rheumatism, Lumbago, Neuritis,
Gout, Sciatica, and all other Uric Acid
Complaints.**

A Nationally Advertised Line that pays
Retailers 25% on a steady increasing
sale. Send now for Special First Stock
Parcel: 1 doz. 3/- size, 1 doz. 5/- size,
½ doz. 12/- size. Any quantity Carriage
Paid. Window Display Terms on
Application. All Wholesalers stock
PHYSIKURATE.

On P.A.T.A. List

★ As advertised, any dissatisfied customer will receive
money back on applying direct—this saves you from
trouble and ensures your recommendation and profit.

PHYSIKURATE, Ltd., 92a Upper Clapton Road,
LONDON, E.5.

★ **"WORKS WHILE YOU SLEEP"** ★

"KRENOMAR"

REGD.

RINGWORM POWDER

TESTIMONIAL.

"After being under four doctors for one year
and a half, and spending a lot of money on
ointment, my children's heads were rubbed
with your powder. After one application I
found they were quite cured, and the hair
began to grow at once." (Mrs.) I. C.

"KRENOMAR"

REGD.

TOOTHACHE POWDER

TESTIMONIAL.

"Until recently I suffered prolonged agonies
with toothache and neuralgia. Then a friend
introduced to me your powder. The result was
truly marvellous. The sharp stabbing pains so
hard to bear entirely disappeared, and now I
know there is true relief to be had for toothache
and neuralgia. I cannot speak too highly of
this cure."—E. S.

Sole Proprietors and Manufacturers:

The Proprietary Cures (Parent) Co., Ltd.

Managing Director: Capt. E. T. JACKSON.

Reg. Office: 85 ALBERT ROAD, MIDDLEBROUGH.

Selling price in each case 1/1½ per Box.

Special trade terms on application.

A TOP HOLE SELLERFOR THE
VOICE & THROATPER **6d.** TIN Registered.

Place your orders now for the coming winter and be
 :: FIRST IN YOUR DISTRICT ::
NO CUTTING ALLOWED. Orders only accepted
 on these terms. In quantities of 1 gross upwards 45/- carr.
 pd. 6 doz. and under 48/- gross. Cash with order.
 Novel window display material.

MAY BE OBTAINED FROM WHOLESALE HOUSES OR DIRECT FROM—

BEWELLS' Ltd., MANUFACTURING CHEMISTS, **19-21 Pitfield St., N.1****NURSE HARVEY'S MIXTURE**

A safe, simple, and reliable remedy for Children's Ailments is advertised so extensively in the daily and weekly Press as to bring mothers to the retailer without effort on his part.

The selling has been done before the mother reaches the chemist, and, having supplied her, it is only common sense to claim she will buy other family necessities from him. Moreover, the retailer has a profitable return on a quick turnover.

For Direct Terms apply to—
OSCAR SCRUTON & CO., YORK

Dr. DE JONGH'S

LIGHT BROWN

COD LIVER OIL

IN IMPERIAL HALF-PINTS, 4/-

ANSAR, HARFORD & CO., LTD.**182 Gray's Inn Road - - LONDON**

SOLE CONSIGNEES.

Is "Hair-Root-Life"
in Stock

Everything is now ready for the big Hair-Root-Life advertising campaign. Don't miss a single customer. Your Wholesaler is holding a stock in readiness for you. Put Hair-Root-Life in to-night's order. You'll be ordering again to-morrow. Retail 1/3, 2/9 & 5/- and shows you big profits.

Manufacturers : J. COPELAND & CO., 65 Devonshire St., Manchester.

BESORBON*(Dr. Hill's Formula)*

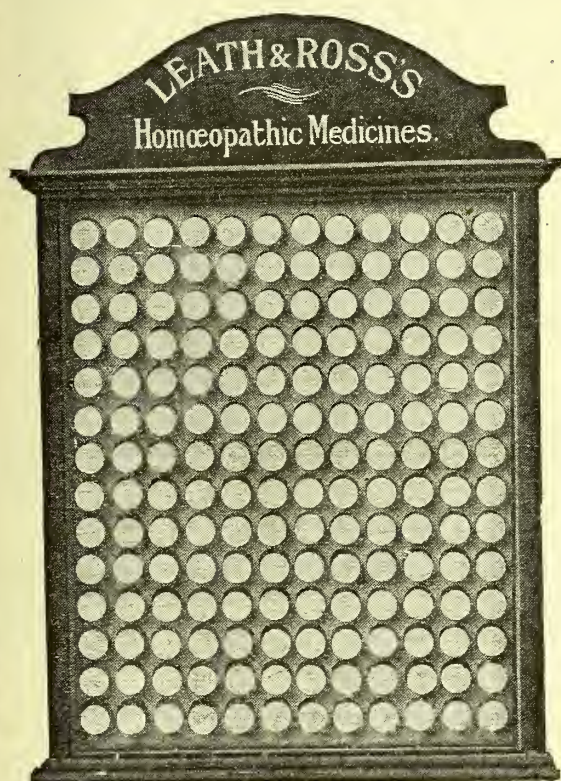
**MEDICINAL SNUFF. ABSOLUTELY THE
 FINEST REMEDY FOR CATARRH & COLD
 IN THE HEAD.**

Richard Dickeson & Co. *(Incorporated with Reynolds, Sons & Co., Ltd.)*
57-59 CHARTERHOUSE STREET, LONDON, E.C.1.

"Necessity knows no Law"

Therefore you must have one of these handsome Showcases in your Pharmacy, because

They are a real Necessity.



Dimensions of the Case, Height (Including Scroll) 26 in.
Width 19 "
Depth 6 "

We supply them on the following most advantageous terms, viz. :

	£	s.	d.
2 gross 1/- assorted Pilules and Tinctures, @ 4/6 per doz.	5	8	0
Half cost of Showcase costing £3 ...	1	10	0
	6	18	0
10 % monthly a/c	13	10	
	£6	4	2

Or Cash with Order

£6 net.

You can choose your own medicines, or leave the selection to us. We should send the best selling lines only, and agree to exchange any within twelve months, FREE OF CHARGE.

Mr. HAROLD HAW, M.P.S., 5 Albert Terrace, Blackpool, writes: "SIRS—Showcase to hand safely; very satisfactory; has already been admired by several chemist friends."

September 13, 1921.

LEATH & ROSS, Homœopathic Chemists,

(Qualified by Examination)

295 High Road, Brondesbury, LONDON, N.W. 6.

An Advertising Exhibit for your Window

SUPPLIED FREE TO CUSTOMERS.

Please ask for particulars.

THIS IS A BUSINESS BRINGER.

Surgical Hosiery Co. Ltd.,
Russell Street, Nottingham.
Department "B."



OILED SURGICAL COTTONS OILED SURGICAL SILKS

EDWARD MACBEAN & Co., Ltd.

Manufacturers of Oil-proofed and Rubber-proofed Cloths of every description.

**London Office—6 & 8 Lime Street Square, E.C.3.
123-125 Howard Street - GLASGOW.**

Telegrams:
"Diamond, Glasgow."

"Stormproof, Ltd, London."

Codes: Lieber's 5-Letter, ABC (5th Edition), and Marconi.

Telephones:
8387 Central,
1995 Central.

THE "MATER" CLINICAL

MAGNIFYING FRONT. NATIONAL PHYSICAL LABORATORY GUARANTEE.
EASY TO READ. EASY TO SHAKE DOWN.

This series is the only **Clinical** Thermometer on the

P. A. T. A. LIST

AN ADEQUATE MARGIN OF PROFIT BEING GUARANTEED

REGISTERED No. 553038



PRICES OF THE "MATER" CLINICAL IN METAL CASES:—

Retail ... 2 min., 4/6; 1 min., 5/6; ½ min., 7/- each.

Wholesale ... 27/-; 33/-; 42/- per doz.

PERKEN, SON & CO., Ltd., 94 HATTON GARDEN,
LONDON, E.C. 1.

Established 1852.

Telephone: 724 Holborn.

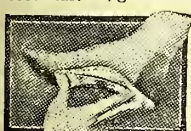
Contractors to H.M. Government.

Telegrams: "Optimus, Smith, London."

Write for Prices of every description of **CLINICAL** and **OTHER THERMOMETERS**.

Dr. SCHOLL'S FOOT-EAZER

affords comfort and relief to tired, aching feet, weak ankles, flat foot, &c. Worn comfortably and unobserved in ordinary footwear. Light and resilient to the foot. Price per pair, 10/6.



Dr. Scholl's
Foot Comfort Appliances

DR. SCHOLL'S
FOOT-EAZER.

are constructed on strictly anatomical lines from only specially selected materials, and are endorsed throughout the world by the medical profession. "Scholl" goods are nationally advertised. Display them in your window and get your share of the demand we create. Write to-day for full particulars.

The SCHOLL MFG. CO., Ltd. 1-4 GILTSPUR ST., E.C. 1.

Stock "WATTS" British Safety Razor Blades

now supplied in convenient nickel-plated container fitted with a spring lid.

12 Perfect Blades
in every
doz.

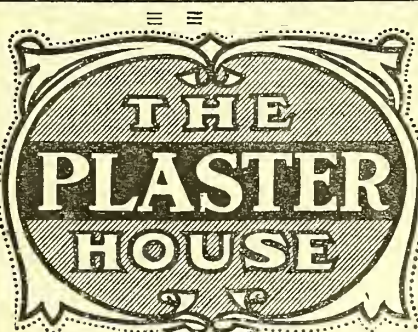


They have a super keenness that ensures perfect service and makes them different from and better than all others.

Retail
price
3/6
per doz.

Retailers'
profit
50%
on cost.

A user writes: "Your Gillette-type Blades are a revelation." Another writes: "Have found nothing to compare with your Blades." **JOHN WATTS (Dept. 3), Lambert Works, Sheffield.** Established over 150 years. London: 24 Redcross St., E.C.1.



FULLY STOCKED.

Wholesale
and
Export

21 Ely Place,
London, E.C. 1.

Phone: Holborn 4637.

Telegrams: "Roborans,
Smith, London."

Edward Taylor

FACTORY: LTD.
SALFORD, MANCHESTER

LATEST
PRICE LIST
ON
APPLICATION

Fig.
957.

The "EMPIRE" HOT WATER BOTTLES REDUCTION OF PRICES.

THE autumn and winter season is rapidly drawing near. Last year, owing to the unexpectedly early demand for Hot Water Bottles, some of our customers were unavoidably kept waiting for supplies.

Place your order *now* for present or future delivery, as prices will not go any lower than the following. Chemists who have built up a reputation for reliable Hot Water Bottles continue to order our well-known "EMPIRE" brand of these goods. Do not risk trying an unknown make.

One quality only—the Best. Guaranteed for two years.

PRICES as follows:

Heavy make	Sizes	6×8	6×10	6×12	8×10	8×12	8×14	10×12	10×14 in.
Grey rubber	each	3/5	3/9	4/1	4/5	4/9	5/3	5/6	6/0
Red rubber	"	3/8	4/0	4/4	4/8	5/0	5/6	5/9	6/6

Each Bottle in a strong paper bag with directions for use.

COVERS.

	Sizes	6×8	6×10	6×12	8×10	8×12	8×14	10×12	10×14 in.
Scarlet or grey plush ea.		1/2	1/4	1/6	1/7	1/8	1/10	2/-	2/3
Velour, assorted colours (washable) each		1/3	1/5	1/7	1/9	1/10	2/-	2/3	2/6

MUFF WARMERS, red rubber, oval shape, 3½×7 in., each 2/-

A discount of 5 per cent. for prompt cash is allowed on all amounts of 10/- and upwards. Money returned if goods are not satisfactory. Write for new Price Lists of Druggists' Sundries, Rubber Goods, Cut Sheet Rubber Appliances, etc., containing full particulars of our well-known "Empire" brand of Air Cushions, Clinical Thermometers, Enemas, Hot-Water Bottles, etc., etc.

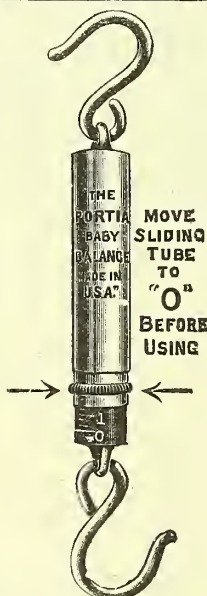
BURGE, WARREN & RIDGLEY Ltd., 91 & 92 GREAT SAFFRON HILL, LONDON, E.C.1.

THE "PORTIA" ADJUSTABLE BABY'S BALANCE

Also
complete
with
Netted
String
Hammock.



Write
for
Prices.



Always
Accurate.



The
BEST
and the
Handiest
Portable
Baby's
Balance.



Obtainable from all Wholesalers.

SOLPORT BROTHERS, Ltd.
184/190 Goswell Road, LONDON, E.C.1.

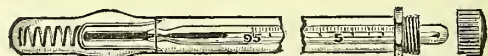
A. C. COSSOR & SON

Established 1859.

High Class Clinical Thermometers



PATENT



THE ACCOSON ASEPTIC CLINICAL.

The Thermometer is sterilised each time it is placed in the case, and the markings on the tube are not defaced. Any 4" clinical will fit the case.

Prices on application or can be obtained from all Wholesale Houses. ORIGINAL PATENTEES OF EASY SET CLINICAL THERMOMETERS. Contractors to all Government Departments.

Accoson Works, Vale Road, London, N.4.

Telephone: Tottenham 1880.

TRADE

MARK.

Telegrams :
'Aybelim, Finsquare, London'
Cables :
Code, A B C 5th Edition.



Telephone :
CLERKENWELL 1347
" 1348
" 1349
Pte. Exchange

SURGICAL DRESSINGS AND CHEMISTS' SUNDRIES

ARTHUR BERTON LTD.

SPECIAL LINES

IN

VACUUM FLASKS

DELIVERY FROM STOCK

WRITE TO-DAY FOR

QUOTATIONS AND SAMPLES

WAREHOUSES & SHOWROOMS:

15 & 17 Worship St., LONDON, E.C. 2. 84 Miller St., GLASGOW

AND

36 Chapel Street, Victoria Bridge, MANCHESTER.

Bovril Bonus Scheme

THE Trade Bonus Scheme runs from 1st March, 1922, to 28th February, 1923, covering all purchases of Bovril and Invalid Bovril at List Prices made between these dates.

Customers who wish to participate, but have not yet intimated their intention to do so, should at once write to the Company for full particulars and an entry card.

Window bills for display in connection with the scheme have been posted to all retailers who participated in the last scheme. To secure the bonus, these bills must be displayed between 1st October and 31st December, 1922.

The demand for Bovril steadily increases, and Retailers are advised to place their orders early for the coming Winter.

BOVRIL

BOVRIL, LTD., 148-166, Old Street, City Road, London, E.C.

PHOSFERINE

New Window Display Conditions.

Monthly Account.Carriage Paid.

For a small Central Window Display of not less than 14 days and an order for £5 worth of Phosferine we allow a bonus of 10/6; on a £2 10 0 order 5/3.

This shows a net profit on the transaction to the Chemist of 35%, besides attracting the passer-by to the window and considerably augmenting sales generally.

Should a £5 or £2 10 0 parcel not be required, any smaller quantity will be forwarded carriage paid, and can, if desired, be regarded as part of the £5 or £2 10 0 order. On completion of the order and a notification that the display is in progress the bonus will be allowed.

EXAMPLE.

		COST	SELLS FOR
3½ dozen 1/3 size at 12/- net	...	£2 2 0	£2 12 6
2 " 3/- " at 30/- "	...	3 0 0	3 12 0
		5 2 0	
Less 10/6 for Window Show	...	10 6	
		£4 11 6	£6 4 6

Showing a Net Profit of £1 13 0 on an outlay of £4 11 6.
Window Display Material Free and Carriage Paid.

WHOLESALE PRICES OF PHOSFERINE.Carriage Paid.Monthly Account.

1/3 size	...	12/- per doz. net.
3/- "	...	30/- " " "
5/- "	...	48/6 " " "
12/- "	...	114/- " " "

PROTECTED PRICES.

Phosferine, and all of our Proprietary Medicines are supplied on the condition that they are not retailed in the United Kingdom under the following prices—viz.,
1/3, 3/-, 5/-, and 12/-

ASHTON & PARSONS, Ltd., Ludgate Hill, LONDON, E.C.4.

Telephone No.: CITY 8733. Telegraphic Address: "PHOSFERINE, CENT, LONDON."

IMPORTANT.—Every care is used in corking and packing Phosferine, but occasionally a leaky bottle will pass undetected. Any leaky or faulty bottle should be returned to Ashton & Parsons, Ltd., Ludgate Hill, London, E.C.4, when a fresh supply will be sent and postage refunded.

The
Famous Natural Aperient Water

Hunyadi János

An extensive advertising campaign is now being conducted in the Medical and General Press which is stimulating the demand for this well-tried natural Aperient Water.

Full supplies are once more being imported, and all orders can be filled without delay.

Hunyadi János has for more than fifty years been recognised as the best of the **NATURAL** mineral waters containing sulphate of soda and sulphate of magnesia. Its laxative action is sure but gentle; it stimulates the liver and cleanses the blood.

Many of your customers who already know its value will be glad to get it again. Others will want to buy it on the recommendation of their doctors, who constantly prescribe HUNYADI in preference to ordinary aperients.

Have you sent your order? If not, do so without delay and thus place yourself in a position to participate in this profitable business.

24/- per doz. large bottles or 48/- per case of 25
18/- „ „ small „ „ 72/- „ „ of 50

Net, free delivery in London or any station in Great Britain.

Minimum Retail Prices :

2/6 per large bottle. 2/- per small bottle.

Sole Wholesale Depot :

INGRAM & ROYLE, LTD.

BANGOR WHARF, 45 BELVEDERE ROAD, LONDON, S.E. 1

19 South John Street, Liverpool. Bath Bridge, Bristol.

THE CHEMIST AND DRUGGIST SUPPLEMENT

42 CANNON ST.
LONDON E.C. 4

OCTOBER 21, 1922

This Supplement is inserted in every copy of The Chemist & Druggist.

THE SUPPLY OF SUPPLEMENTS.

The clerical work in connection with the posting of spare copies of the Coloured Supplement week by week has increased to such an extent that we have been compelled to reorganise our system of distribution. Our readers will please note, therefore, that, in future, instructions can be accepted for not more than six successive issues of the Supplement at a time, and that in every case

Addressed Wrappers Stamped One Penny

must be sent. Loose stamps will not be accepted.

EARLIER CLOSING FOR PRESS. Will advertisers please note that until further notice it will be necessary that Advertisements intended for the Supplement must reach as not later than the **FIRST POST THURSDAY MORNING.**

CHEMISTS' TRANSFERS.

Messrs. ORRIDGE & CO., 56 Ludgate Hill, E.C.

Telephone No.; City 2283.

May be consulted at their Offices on matters of SALE, PURCHASE and VALUATION

—LONDON, S.W.—Ready money Business; returns, about £600 yearly; net profit, 25 per cent.; rent, £48, which includes licence; lease, 17½ years, unexpired; price £1,850.

—LONDON, W. (District Suburb)—Cash Retail Business, vitally situate in busy shopping locality; returns, about £30 weekly, under indifferent management; scope for large development; about the value of stock and fixtures would be accepted.

—KENSINGTON.—Family Retail and Dispensing Business; established 75 years; returns, present rate, about £1,500 per annum; gross profit, 40 per cent.; single-fronted shop; good working stock; held on lease; rent £60, sublet £91; price, about £50.

—LONDON, W.—Good-class Dispensing Business, returns about £10,000, at full prices; double-fronted shop, well-fitted and heavily stocked; new lease will be granted; further details receipt of banker's reference.

—LONDON, S.E.—Nucleus of a Manufacturing and Wholesale Chemist's Business; the turnover at present is small through want of attention, but the opportunity exists to create a good business; low rent; about £200 required.

—LONDON, N. (Main Thoroughfare)—General Retail Business; returns, present rate, £15 to £20 weekly, with scope for large increase; modern, well-fitted shop, fully stocked; 6-roomed house and garden; rent £63; 14 years' lease; price £850.

—LONDON, E.C.—City Pharmacy; very old-established; situate in one of the main City thoroughfares; gross receipts, about £6,500, increasing; new lease will be granted; price, about £500.

8.—SOUTH WALES (Near Coast).—Old-established Business, with Wine and Spirit Licence; returns last year, £3,220 at good prices; house contains 10 large rooms; private entrance; 17 years' lease; no opposition; price to be arranged.

9.—DORSET.—General Retail and Dispensing Business, with Optics; returns last year, £2,530; net profit, about 25 per cent.; the shop is well fitted and stocked; there is ample living accommodation; terms, goodwill £250, stock and fixtures at valuation; freehold, £2,000; part payment entertained.

10.—KENT COAST.—General Retail Business; sadly neglected, in the hands of an energetic man, could undoubtedly be increased; lock-up shop; new lease would be granted at a rental of £20 per annum; terms, value of stock and fixtures, from £300 to £400.

11.—BATH (Near).—General Retail and Dispensing Business; returns, present rate, £16 to £17 weekly, with scope for large increase; stock and fixtures estimated by vendor at £650; held on lease at a rental of £28 per annum; entirely unopposed; price £650.

12.—YORKS.—General Retail and Prescribing Business; returns last year, about £800, with scope for increase; single-fronted shop, fitted in mahogany and fully stocked; new lease will be granted; rent £33; price £730.

13.—CO. DURHAM.—General Retail Business, offering scope for extended trading under energetic management; returns about £20 weekly; single-fronted shop, well stocked; moderate rent; terms, valuation of stock and fixtures, about £650.

14.—LONDON, S.W.—Cash Drug Stores; returns present rate £15 to £16 weekly; single-fronted shop; good working stock; 21 years' lease; rent £48; price, £600.

VALUATIONS FOR STOCKTAKING.

Messrs. O. & Co. desire to emphasize the necessity of a periodical Statement of Account by which means alone Profit, the value of Business, &c., can be determined. Involving as this does the labour of Stocktaking and Valuation, it is often omitted and eventually becomes the cause of confusion and loss.

Messrs. O. & Co. are prepared to undertake these essential duties and make Special Terms for such services.

ORRIDGE & CO., 56 LUDGATE HILL, LONDON, E.C. 4

BERDOE & FISH

Valuers and Transfer Agents,

35 Jewry Street, Fenchurch Street, E.C.3.

Telephone—1809 CENTRAL.

- 1.—SOUTH COAST.—Light cash retail, in large town. Returns over £2,000. Lock-up shop; well stocked. Price £1,350.
- 2.—WEST OF ENGLAND.—Good-class Country Retail, in small town. Returns over £1,500. Kodak agency; modern pharmacy; lock up; fully stocked. Price £1,350. Strongly recommended.
- 3.—SURREY (30 miles out).—Small good class Retail; no near opposition. Returns £10 to £12 weekly under management; low rent; lock-up shop; good stock. Price, £300; suit beginner.
- 4.—HERTS.—Unopposed Village Retail. Returns over £1,000. Rent £25; 6 rooms, garden, etc. Price £600.
- 5.—LONDON (ESSEX).—Cash retail, with very large panel; in unique position; returns £2,650; net profit, £750 to £800; very heavily stocked. Price, £2,250 cash.

BUSINESSES WANTED.

IMMEDIATELY, in large town, a good sound business, returning not less than £3,000 a year, and capable of extension. Client waiting with £3,000 cash available; also a large number of buyers seeking smaller concerns in all parts.

STOCKTAKING VALUATIONS.

We are now booking dates for October and November, and invite early applications to save disappointment. Terms sent on application.

ESTABLISHED 1870.

The Association of Mnfg. Chemists

— LIMITED —

Head Offices—26-28 Kimberley House
Holborn Viaduct, London, E.C.1.

(and at 2 Bixteth Street, Liverpool.)

PARKIN S. BOOTH, Accountant and Valuer. PHONE: CITY 6942-43.

WE HAVE THE FOLLOWING BUSINESSES FOR DISPOSAL.

1.—WEST OF ENGLAND.—General Business for disposal; would suit Motor Engineer; with premises suitable for opening a Chemist's Business; without competition; established 10 years; price for freehold premises, goodwill, fixtures, fittings, and stock, £1,700; premises consist of double-fronted shop, large dwelling house, workshop and garage for 5 cars.

2.—LONDON, W.—Family Retail and Dispensing Business; returns about £1,500, increasing; rent, £60 per annum; let off £90 per annum; total ingoing, about £1,400.

3.—WEST OF ENGLAND.—Small Tablet-making Business for disposal; excellent opportunity for small buyer; price, to include goodwill, extensive machinery plant, and stock, £400.

4.—PENRHIWCEIBER.—Small well-fitted Chemist's and Druggist's, with exceptional living accommodation; stock £200; rent £45 per annum; no reasonable offer refused.

5.—MOUNTAIN ASH.—Exceptionally well-appointed Chemist's and Druggist's; consists of 2 shops; stock £250; rent £90 per annum; offers wanted.

6.—WOOLWICH.—Drug Stores; main road position; turnover, £1,200 per year; profit, 40 per cent; with good mail order business; excellent scope for qualified man and Dental Practice; total ingoings about £550.

7.—SOMERSET.—Drug Stores; well-fitted shop, near large town; rent, £40 per annum; lease 21 years can be obtained; returns £70 per month; stock £450; good scope for qualified man; open to offer for lease, goodwill.

8.—KENT.—Chemist and Photographic; rent £52; lease 4 years to run; returns £5,000; stock at val., £400; price £1,200.

9.—LONDON, W.—Small Manufacturing Business of Toilet Preparations, etc., for disposal; stock about £300; profit 50% gross; price for lease, goodwill, fixtures, fittings, and utensils, £1,000. This includes printed labels and stationery to the amount of something like £600.

10.—LONDON, W.—Small Manufacturing Business for disposal; stock, £1,000. Price for lease, and goodwill, fixtures, fittings and utensils, £3,000. Full particulars.

STOCKTAKING AND VALUATIONS FOR ALL PURPOSES
UNDERTAKEN UPON REASONABLE TERMS.

BAKER & ROBERTS

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Transfer Agents and Valuers,

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Telephone: 1934.

BUSINESSES WANTED.

PREMISES TO LET.

FOR Sale, two Leasehold Premises fitted out with the latest fittings and fixtures for the business of Chemist and Druggist. The premises are situated in the main thoroughfares and business centres of two thriving colliery towns in South Wales. Further particulars may be obtained on application to Messrs. G. A. Evans & Evans, Incorporated Accountants, Firmed Offices, Mountain Ash.

12 SUPERIOR Shops to Let.—Palmerston Colonnade, corner of Station and Palmerston Roads, facing Westcliff Railway Station; finest and largest in Westcliff; lock-up shops; £200 to £350. High Street, Sheerness, No. 38, centre of busiest part; 10 rooms; 38-ft. frontage, 130 ft. deep; rent £400; suit any trade. High Street, Brentwood, corner Ongar Road; 10 rooms; bold corner; suit provisions, bank, or make five or six shops; rent £350; long leases granted. No. 31, London Road, St. Albans; 10 rooms; freehold, £2,500. Shorecliff, 8, San Remo Parade, Westcliff-on-Sea.

LEGAL.**IN THE MATTER OF CARBUNA, LIMITED.**

IN pursuance of Section 188 of the Companies Acts, 1908 and 1913, a meeting of the Creditors of the above-named company will be held at the registered offices of the Company, No. 2, Basinghall Avenue, in the City of London, on the 30th day of October, 1922, at 12 o'clock noon, for the purposes provided for in the said Section.

Dated this 17th day of October, 1922.

J. H. STANLEY,
Liquidator.

Witnessed:
H. J. Moodie, Solicitor,
2, Basinghall Avenue, E.C.2.

TENDER.

**GUY'S HOSPITAL, S.E.
DRUGS AND SURGICAL DRESSINGS.**

THE House Committee invite Tenders for the supply of Drugs and Surgical Dressings. A list of these, with further particulars and form of Tender, may be obtained on application to the Superintendent's Office.

Tenders, duly sealed, are to be returned to the Superintendent's Office not later than October 28, 1922.

BUSINESSES WANTED.

s. for 50 words or less; 6d. for every additional 10 words or less, prepaid.

LIVERPOOL DISTRICT.—Wanted, a Cash Business. "M., 95/9, Office of this Paper.

CHEMIST requires genuine small Business yielding about £300 net profit; London suburban or Home Counties; living accommodation essential; would manage, with a view to early succession; cash waiting, and immediate negotiations. Full particulars in confidence to "Phoenix," 99/38, Office of this Paper.

GOOD or middle-class genuine Business required by single Pharmacist in London or suburbs; short introduction; cash available £1,100. Apply 95/12, Office of this Paper.

MEDIUM-CLASS small town or seaside Business wanted at once; cash £800; larger business entertained on extended payments; must be capable of increase with modern ideas and energy; good living accommodation essential. Full particulars in confidence to "M.P.S.," 17, New Meeting Street, Birmingham.

PHARMACIST requires Business, seaside, inland resort, or market town; good shop and house; either North, South, or West England; would purchase neglected business if other conditions suitable, or premises suitable for opening; cash transaction. 99/39, Office of this Paper.

RETAIL Business required, London or Home Counties; middle-class, must be genuine; neglected business considered if in good position. Information given will be treated as strictly confidential. Banker's reference given if desired. F. M., c/o Bedford Park Post Office, W.4

WANTED, sound Business on South Coast; turnover about £2,000, increasing; living accommodation if possible; good position and scope essential. Full particulars to 98/16, Office of this Paper.

PARTNERSHIPS.

ADVERTISER, qualified, desires Partnership or Managership with financial interest or view to succession; aged 40; married; Photographic experience; capital available £400; North-Eastern Counties preferred. Apply 98/23, Office of this Paper.

PARTNERSHIP desired by highly qualified man, capital about £900, with old-established Chemist preferred, and where option of ultimate purchase can be obtained; please send as full details as possible in first instance; all replies treated confidentially; advertiser ready at any time. 101/29, Office of this Paper.

PARTNERSHIP offered, high-class Packed Goods, under registered trade marks; excellent prospects; no trade liabilities; must be a worker; capital required, £700. Reply sent only to those enclosing bankers' references. 101/5, Office of this Paper.

EXHIBITION SPACE WANTED.

MANCHESTER EXHIBITION.—Small space wanted on stand to show Pocket Inhaler. Send terms to Miss Patten, 150, Southampton Row, London, W.C.1.

BUSINESSES FOR DISPOSAL.

6s. for 50 words or less; 6d. for every additional 10 words or less, prepaid.

THE ADVERTISER may if preferred have replies addressed to this Office, and forwarded on payment of an additional charge of 1/-.

ESSEX.—Health Resort. Pharmacy, central position, lock-up; returns, £1,000 per annum; well stocked; rent and rates very low; fine opportunity for live young man; price £450, a bargain. "Ascott," 99/20, Office of this Paper.

LIVERPOOL DISTRICT.—Sound Cash Business in densely-populated area; light Retail and Photo; house attached; good opening for N.H.I.; average turnover for last three years nearly £1,800; excellent profits; rent £35 and rates; price £1,600. "Q.," 100/37, Office of this Paper.

LONDON, S.E.—Lock-up Chemist's Business, recently opened, offered for sale; satisfactory lease; N.H.I. and returns capable of increase by one with good London experience; satisfactory reasons for disposal; stock valuation; price £250. Write 100/31, Office of this Paper.

MERSEY, Cheshire side.—An old-established and widely-known Business, situated in main business thoroughfare; returns under management average £2,400; big scope for owner-manager; good stock and fixtures; rent £90; lease; gross profits over third; an opportunity to a good business man that rarely occurs; no agents. 98/37, Office of this Paper.

STAFFORDSHIRE.—Middle-class Business; well situated; scope for live man; living accommodation attached; returns £800; well stocked; good reasons for disposal; £450 for quick sale. 97/16, Office of this Paper.

WORCESTERSHIRE.—Cash Business, returns £20 to £25 weekly; increasing trade, good prices; Prescribing and N.H.I.; two patents; good, sound stock; net profit, about £400, lock-up shop, on lease; easily worked; price £950 cash, or valuation and goodwill; good reasons for disposal. "Vertox," 101/10, Office of this Paper.

DRUG Stores, £16 per week; price £450; part could remain on mortgage. Cash, 5, Southampton Street, Camberwell, S.E.

EXCELLENT Chemist's Business for disposal immediately in thickly populated district of busy manufacturing town; no near opposition; freehold property; modern house and shop to be sold along with business; turnover, £3,200, scope for increase. Apply, 99/25, Office of this Paper.

FOR disposal, small Manufacturing Toilet and Perfumery Business; plant, stock and formulas, £150; owner will teach buyer the business; great scope for increase to one prepared to work. 99/13, Office of this Paper.

PATENT Rights for Sale of unique Container for Ointments, Creams, etc.; valuable speciality for enterprising firm; price £150. Apply "H.," P.C.B. 67/23, Office of this Paper.

THE only Manufacturing Chemist's Business in South Wales for disposal; situate near centre of large industrial city and off main thoroughfare; large floor area; exceptional business is being done, and to the right man a splendid living is assured; premises will be sold at £2,250, or let at £275 per annum exclusive; stock approximately £4,000, to be taken over at valuation; good reasons for selling; genuine bargain. Sole Agents: C. H. Bell & Co., Business Transfer Agents, 11, Dumfries Place, Cardiff.

FOR SALE.

ABOUT 20 dozen bottles Ammoniated Quinine Tablets, B. W. & Co., gr. 5, 100's, 3ss. dozen net cash. 12/386, Office of this Paper.

FOR Sale, cheap, Brass Beam Scales to weigh 7 lbs., also a number of small Dispensing Scales to weigh 2,000 grains (new); all stamped. Apply "D. L.," 28, Old Kent Road, S.E.1.

AGENCIES.

6s. for 50 words or less; 6d. for every additional 10 words or less, prepaid.

DUBLIN Firm of Manufacturing Chemists, with representatives covering all Ireland, open to accept Sole Agencies for Patents and Manufacturers' Products; store capable of holding large stocks in central position in Dublin. Apply, "Dublin," 100/4, Office of this Paper.

ADVERTISER, with London office and warehouse, live organisation, desires further representation in United Kingdom and Colonies for Pharmaceutical Specialities, Proprietaries, etc. 13/411, Office of this Paper.

CORKS.—Agents required for the sale of all kinds of Corks at competitive prices on a 5% commission basis. Apply 13/420, Office of this Paper.

MANUFACTURERS' Agents in London, with spacious warehouses available, are open for further Agency where delivery from stock is advantageous; old-established connection (wholesale only); payment by results. P.C.B. 65/38, Office of this Paper.

SELLING Agents, with established connections, calling on retail stores, chemists, hairdressers, etc., wanted in all parts of U.K. to sell two first-class Patent Toilet Requisites, both much in demand. State ground worked. Write, Blesko, Ltd., Melrose, Upper Hill Lane, Southampton.

TO Provincial and Colonial Firms.—Advertiser, with London office and warehouse, and travelling staff, prepared to act as Buying, Organising or Sales Agent for firms who require London establishment, but who may not desire to incur the expense of entire establishment. 13/410, Office of this Paper.

TO LET.

TO Dentists.—Doctor, having large rooms partly furnished, would let to dentist desirous of starting in practice. Apply Caretaker, 3, Hogarth Road, Earl's Court.

SITUATIONS OPEN.**[HOME.]****RETAIL.**

6s. for 40 words or less; 6d. for every additional 10 words or less, prepaid.

HUDDERSFIELD.—Good Junior, about 19; no Sunday duty. State age, height, salary required, and fullest particulars to Cooper, Chemist, Marsh, Huddersfield. (Enclose photo if possible).

LONDON, S.W.2.—A smart unqualified Junior Assistant wanted, not over 25; must be thoroughly trustworthy, a good Window-dresser, and quick Counterman; well up in Photography. Applications not answered in six days please consider declined. Mason, Chemist, 89, Acre Lane, Brixton.

LONDON.—Smart Assistant wanted for quick cash trade; must be good salesman and knowledge of photography. Apply, with particulars stating age, experience, and salary required, to Oliver & Co., 487, High Road, Tottenham, N.17.

LONDON, N.E.—Smart all-round Junior, outdoor; capable at dispensing and counter. Apply by letter, stating age, height, experience, and salary required. Tabor & Cresswell, 138, High Street, Kingsland.

NEWCASTLE-ON-TYNE.—Qualified Assistant wanted for working-class neighbourhood. State salary expected and date available. Dennison & Dean, 86, Copland Terrace, Newcastle-on-Tyne.

SMART Junior Assistant required, quick and accurate Dispenser, good Window-dresser, and knowledge of Photography. Apply by letter, stating salary and experience, enclosing photo, to H. H. Righton, Chemist, Havant, Hants.

UNQUALIFIED Assistant wanted in mid-November for about four months (out doors), male, single preferred, age about 25; must be smart for very quick middle-class Drug Store business; easy hours; unquestionable references essential. Apply, with photo (if possible) and particulars, to Vivian Miles, The Popular Pharmacy, Swindon, Wilts.

ROYAL VICTORIA INFIRMARY, NEWCASTLE-UPON-TYNE.

WANTED, a competent man in the Surgical Instrument Department; one who is familiar with, and has had practical experience in, the making of surgical splints; must be able to measure and fit on; experience in the sharpening of knives and general repairs an advantage.

Wage £4 to £5 per week, according to experience. Applications, stating age and experience, and accompanied by two copies of recent testimonials, must be sent to me not later than Tuesday, October 31, 1922.

S. DUNSTAN,
House Governor and Secretary.

ASSISTANT, young, energetic, good appearance and address, smart Salesman, accurate Dispenser, capable at Photography; middle November; state age, experience, salary; enclose recent photo with first letter. 99/26, Office of this Paper.

ASSISTANT (unqualified), age not over 30, for S.W. district must be a good Dispenser and Window-dresser, with photographic knowledge. 13/423, Office of this Paper.

GOOD Junior required for quick Retail and Dispensing business in N. London; must be experienced and reliable; state full particulars of experience, age, references, and salary required 99/19, Office of this Paper.

JOHN BELL & CROYDEN, LTD., 50/52a, Wigmore Street W.1, have vacancies for qualified Assistants with sound Dispensing experience; also for smart Countermen; qualifications unnecessary; splendid prospects for progressive men. Apply General Manager.

JUNIOR for good-class business; must have had good training, be a good Salesman and accurate Dispenser. State age, height, experience, salary required, photo, if possible, with references, to R. S. Lacey, Chemist, Abingdon.

JUNIOR Assistant wanted for 5 evenings a week; accustomed to N.H.I. work. State age, salary required, and experience to Whiting & Co., 204, Ebury Street, S.W.1.

LADY Assistant, qualified, for Dispensing and Light Retail; knowledge of book-keeping and photography an advantage. Country, but within easy reach of London. Please give full particulars of experience, etc., and salary required. 101/ Office of this Paper.

LADY Dispenser wanted by Doctor in Kent; must be experienced, quick and accurate; no book-keeping; one even off a week; one hour's duty on Sundays. State age and salary required to 101/17, Office of this Paper.

MANAGER, age 25/35, required for suburban branch; must be a good Salesman and Window-dresser, with photographic experience. 13/422, Office of this Paper.

QUALIFIED Chemist; energetic; able to adopt go-ahead methods; must be good Dispenser and possess excellent references. Send full particulars of experience, age, and salary required in first letter. Martyn's Stores, Ltd., Wolverhampton.

UNQUALIFIED male Assistant wanted for end of October; knowledge of good class counter work and dispensing essential; permanency to right man. State age, experience, salary required (outdoors), to Densem, Chemist, High Street, Exeter.

WANTED for middle of November, Young Lady for Dispensing stock and assist at Counter, Photography. Write Marchant, 36, High Town, Hereford.

WANTED, Evening Assistant; hours 6-8, five evenings a week; mostly N.H.I. Dispensing; gentlemen only apply. Davies Co., 324, Caledonian Road, N.

WANTED, unqualified Assistant, age 25 to 30; must be a smart window dresser and counterman, used to handling photographic goods, some dispensing. Please state salary, doors. 100/16, Office of this Paper.

YOUNG qualified male Assistant required by small firm of Chemists in London; must be accustomed to good-class business and be of impeccable character. Write in first instance to 98/15, Office of this Paper.

WHOLESALE.

The ADVERTISER may if preferred have replies addressed to Office, and forwarded on payment of an additional charge of 10s.

MIDLANDS.—A new and excellent side line, which is readily, is offered to approved Representative covering specified ground calling on Chemists and Stores; samples of State territory and class of goods carried to 96/37, Office of this Paper.

ACTIVE sales organisation requires live Representative, Scotland, South Coast, South Wales, Home Counties; every packing given to keen men knowing Chemist trade. Apply Sales Manager, 13/424, Office of this Paper.

ADVERTISING.—Opportunity occurs for qualified or unqualified man to learn Pharmaceutical Advertising in department of large London wholesale firm; ability to write concisely is essential, and some knowledge of display work is desirable. Send full particulars of age, qualifications, experience and salary required to 13/490, Office of this Paper.

EXPERIENCED Travellers wanted, with strong connection, in following districts, for Surgical Dressings and Toilet Goods:—1, Scotland; 2, Lancs., Yorks. and Northern Counties; 3, Cheshire, Derby, Nottingham, Lincs., Shrops., Stafford and Leicester; 4, Hereford, Worcester, Warwick, Northampton, Huntingdon, Bedford and Cambridge. Only men of strong character and possessing grit and tact are suitable. Applications, stating particular territory desired and giving full details of experience, age and terms, to be addressed to "Beta," 3/419, Office of this Paper.

GENTLEMAN required immediately as Sales Manager for well-established and progressive firm of Soap Makers (non-combine), Perfumers, &c. Applicants must have a sound and wide knowledge of salesmanship in connection with the above manufactures and have assured clientele amongst large buyers. Applicants should give fullest information which will be treated in strictest confidence. 13/415, Office of this Paper.

MANAGER with a view to an ultimate DIRECTORSHIP.—A vacancy will shortly occur in an old-established business for a competent man with mature experience in Retail and Wholesale Pharmacy; one who has some knowledge of the manufacturing side of the trade, coupled with experience in interviewing medical men, would receive preferential consideration. Applicants are requested not to send either photographs or original testimonials.

Only those whose previous experience will hear the strictest scrutiny need apply. Full particulars, in strict confidence, may be addressed to "Wholesale," 13/416, Office of this Paper.

MANUFACTURING Chemists have openings in various parts of the British Isles for representatives with connections among Retail Chemists. Applications are invited only from men who can do at least £60 per week in medicinal preparations. Commission terms with advantage of existing connections. 13/413, Office of this Paper.

MANUFACTURING Chemists with established connection require Representative for Northumberland, Cumberland, Westmorland and Durham. Applicants, who must live on the ground, should state age and previous experience and when at liberty. 13/398, Office of this Paper.

PACKER and Storekeeper wanted for Surgical Dressings and Toilet Goods; must be experienced. Full particulars of age, experience, and wages required to "Alpha," 13/418, Office of this Paper.

QUALIFIED Chemist, about 25, required as a Representative by a large London firm; previous experience not necessary; essential qualifications are trustworthiness, business capacity, good appearance and education. Apply, stating when disengaged and full particulars, to 13/409, Office of this Paper.

REPRESENTATIVE required in London and district by old-established London manufacturers of high-class Toilet Soaps, Perfumery and Toilet Preparations; only active and keen salesmen with a thorough knowledge of the trade and with a live connection amongst chemists, etc., are considered. Applications, with full particulars as to age, previous experience, etc., will be treated in confidence. Apply to "X. Y. Z.," 13/399, Office of this Paper.

REPRESENTATIVE required by London Manufacturers of Pastilles, Lozenges, Cachous, Capsules, and dealers in Toilet preparations, Perfumes and Sundries, for (1) West of England and South Wales, (2) Durham, Northumberland, Westmorland and Cumberland, with good connection; must live on ground. Part expenses and commission. Reply, "D.F.," 13/414, Office of this Paper.

REPRESENTATIVE required, particularly well-educated young Pharmacist, preferably qualified, having had a sound and superior training in Pharmacy, of good appearance and pleasing manners, with energy, sales-making capabilities, determination and desire to excel. Applications, in confidence, Managing Director, Philip Harris & Co., Edmund Street, Birmingham.

REPRESENTATIVES required for quick selling line; small samples; liberal commission; attractive proposition. Men with sound connections are invited to reply, stating ground, experience, and present firms. 100/14, Office of this Paper.

SMART Salesmen required at once to handle nationally advertised Proprietary Medicinal and Toilet Lines, Chemist's Packed Goods, in South Wales and four Northern Counties; applicants must have live connections in these territories; residence on territory necessary. P.C.B. 67/21, Office of this Paper.

TOILET Soap Traveller wanted immediately to introduce a new non-combine line of Toilet Soaps and specialities at competitive prices to Lancashire Chemists; salary and commission hacked by advertising offered to energetic man with live connection. Fleurol (London), Ltd., South Lane, Elland.

TRAVELLERS required, calling on soap and perfumery, confectionery, M.W. trades, wholesale and manufacturing chemists, to introduce chemicals, etc., on commission; state ground covered. 13/417, Office of this Paper.

TWO Representatives wanted, one for Nottinghamshire, Derbyshire, Staffordshire, and Sheffield, the other for the Scottish ground, by an old-established Sundry House, on good commission basis; not necessarily confined to our employ only. 91/16, Office of this Paper.

WANTED, an experienced Counterhand for home and export trade. Write, stating experience and wages required, to Hopkin and Williams, Ltd., 16, Cross Street, Hatton Garden, E.C.1.

WANTED, Travellers, preferably with established connections among Chemists and Stores, to sell on liberal commission basis a well-known Dentifrice. Territories open—all England (exclusive of London) and Scotland. Salesmen are, of course, at liberty to carry non-competitive lines. Apply, with usual particulars, to 13/421, Office of this Paper.

[Colonial, Indian and Foreign.]

RIVIERA.—Qualified season Assistant for 6 months; West-end Dispensing and Counter experience essential; must be well educated and of good appearance; room provided, hut live out. State terms, &c., to Allouard, Pharmacien, Hyères (Var), France.

RIVIERA.—English qualified Assistant, 25-35, required from December 1 to end of season, April or May. Accustomed to good-class pharmacy. 650 to 700 frs. per month. Bedroom provided. 250 frs. travelling expenses. 99/29, Office of this Paper.

SITUATIONS WANTED.

[HOME.]

RETAIL.

2s. for 18 words or less; 6d. for every additional 10 words or less, prepaid.

A.A.A. CAPABLE Pharmacist, 34, single, qualified 1909, permanent or temporary, any capacity, anywhere; registered locum R.P.U.; disengaged; moderate. Clear Mount, Alhert Road, Dorchester, Dorset.

A.A.A.—ASSISTANT, 27; high-class experience; first-class Salesman, quick and accurate Dispenser; highest possible references; disengaged shortly. "Chemists," 10, The Avenue, Eastbourne.

A CAPABLE Assistant, 39; expert Salesman and Window-dresser, Dispensing and Photographic; London or near preferred. 101/18, Office of this Paper.

A PART-TIME Assistant (qualified); young; West-end experience; Dispensing, Counter, or both, Photography. Interview. E. J. Thomas, 8, Alhert Square, S.W.8.

A PERMANENCY by a capable and reliable qualified man; sound experience, Dispensing, Counter, Prescribing; disengaged. "Chemist," 44, Elmhurst Road, Forest Gate, E.7.

A QUALIFIED Pharmacist; experienced Manager; unexceptional references; disengaged 27th. Locum or management. 101/8, Office of this Paper.

A BSTAINER.—Qualified Manager, Assistant, Locum; 20 years' sound experience; Photography; November 4. Smith, 22, Churchill Road, Gt. Yarmouth.

AN Assistant; qualified; evenings and Saturdays; 19 years' London experience. T. L., 22, Maitland Park Villas, Hampstead.

AN experienced qualified woman wants post as Dispenser and General Assistant; very moderate salary. "Dispenser," 108, Lower Richmond Road, Putney, S.W.

AN experienced Assistant desires good permanency; Senior, 39; tall; single; competent Dispenser, Counterman, Window-dresser; highest references from present and previous employers; distance immaterial. "Specs," 104, Mazagine Lane, New Brighton.

AN experienced Assistant; unqualified; 43; first-class experience; reliable, capable of management; Prescriber, Dispenser, and photo; references; disengaged November 1. W. M., 155, Duke Street, St. Helens.

APRENTICESHIP in Bristol by well-educated youth of 17½; tall; 3 years' indenture; state terms. Rouch, 37, Grove Road, Ramsgate.

AS Manager or Locum; qualified; 30 years' experience; excellent references; abstainer; London or country. P.C.B. 67/8, Office of this Paper.

AS permanent Branch Manager or Locum; qualified; 50; satisfactory references; London or Provinces; all-round experience. Scot, 38, Wendover Road, Harlesden, N.W.

ASSISTANT, 37, married; educated Willesden Grammar School; experienced in Dental work. M. L. 15321, Office of this Paper.

ASSISTANT; unqualified; 6½ years' Dispensing, Galenicals, Photography, and Counter; good-class references; disengaged; anywhere. "Pestle," 197, Gilesgate, Durham.

ASSISTANT, high-class Counter and Dispensing experience West-End; disengaged; excellent references; age 26. Hubbard, 1, Sea Road, Highcliffe, Hants.

ASSISTANT, qualified, 25, good references, for Counter, Dispensing, Window-dressing, Photographics; London district preferred. Evans, 5, Grafton Square, Clapham.

ASSISTANT, disengaged shortly, desires permanency; good Dispensing and general Retail experience; good references. "Qualified," 14, London Street, Paddington.

ASSISTANT, 46; unqualified; married; all-round experience; a successful Prescriber; taking personality; active, conscientious; capable take charge; Manager last 4½ years; good references.—Etchells, 96, High St., Shirley, Southampton.

ASSISTANT; unqualified; 29; married; 11 years' experience, Dispensing, Counter, and Photography; excellent references. Hoff, 42, Gascony Avenue, Kilburn.

ASSISTANT, 21; situation required for two months (shorter period will be taken); waiting to take Minor at Christmas; 6 years' experience; London or district preferred. Shelton, Ashwell, Herts.

ASSISTANT, 20; tall; capable Dispenser, Counter, etc.; Bristol and district preferred. C. W. Beck, Westfield, Radstock.

ASSISTANT, 25, unqualified, all-round experience, desires post, London; previous London experience. Williams, 10 Park Street, Whitland, South Wales.

ASSISTANT, 35; unqualified; 20 years' good all-round experience; dispensing, window-dressing, and quick counter. J. Ash, 38 Lydford Road, Paddington, W. 9.

ASSISTANT, 24; high-class Dispensing and Counter experience; disengaged; season or longer engagements. Roberts, Gate, Dinas Cross, Pem.

ASSISTANT, competent, reliable, experienced, seeks engagement; good-class retail dispensing experience. W. R., 4 Edward Road, Coulsdon, Surrey.

ASSISTANT, 32; unqualified; competent Counter, Dispensing; 15 years' first-class practical experience; suburban and West-End; excellent references; locum or permanency; disengaged. Fenner, 8 Carnarvon Road, Leyton, E. 10.

BIRMINGHAM Lady (Hall, Part I. Minor), requires post with Chemist to complete hours; capable, good references, tall; moderate salary; three years' experience. Apply, "Tyrol," Alderbrook Road, Solihull, Birmingham.

BIRMINGHAM Lady (Minor) desires post with Doctor, Chemist or Institution; good references; tall; experienced. Apply, Eford, Olton, Birmingham.

BRANCH Manager or Assistant; excellent all-round experience, Photography, etc.; qualified (27). "Chemist," 124, Skipton Road, Colne, Lancs.

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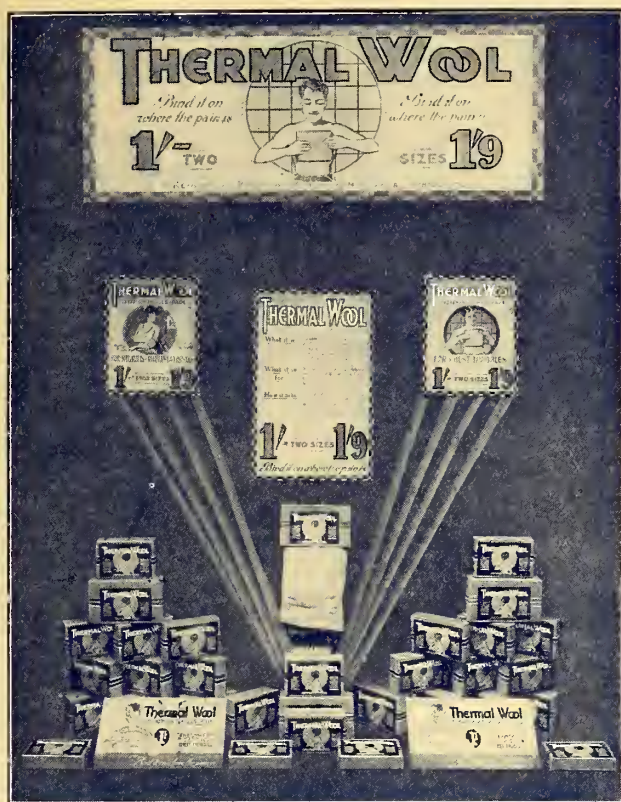
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